SAMSUNG

PDP-TELEVISION
(PLASMA DISPLAY PANEL)

Owner's Instructions

Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PICTURE IN PICTURE (PIP)
COLOUR WEAKNESS ENHANCEMENT MODE
MY COLOUR CONTROL
TELETEXT (OPTION)
SRS **SRS TRUSURROUNDXT**
DNIe™ **DIGITAL NATURAL IMAGE ENGINE**

This device is a Class B digital apparatus.

User Instructions

◆ *Screen Image retention*
Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

◆ *Height*
The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

◆ *Heat on the top of the PDP TV*
The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product.
This is normal and does not indicate any defect or operation failure of the product.
However, children should be prevented from touching the upper part of the product.

◆ *The product is making a 'clacking' noise.*
A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

◆ *Cell Defects*
The PDP uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

◆ *Avoid operating the TV at temperatures below 5°C(41°F)*

◆ *A still image displayed too long may cause permanent damage to the PDP Panel*
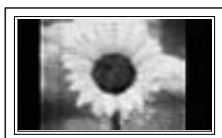
Watching the PDP TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and centre of the screen caused by the difference of light emission on the screen.
Playing a DVD or a game console may cause similar effect to the screen.
Damages caused by the above effect are not covered by the Warranty.

◆ *Afterimage on the Screen.*
Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages.
To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a long time.

◆ *Warranty*
- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.

Checking Parts

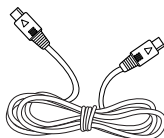Owner's Instructions

Remote Control/
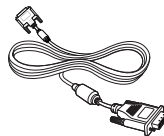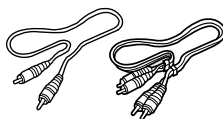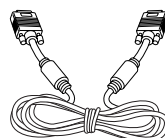AAA Batteries

Power Cord

Antenna Cable

S-VIDEO Cable

DVI Cable

Component Cables
(RCA)

PC Cable
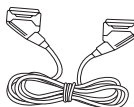
Scart Cable

PC Audio Cable

DNIe™ (**D**igital **N**atural **I**mage **e**ngine) DNIe™

*This feature brings you more detailed image with 3D noise
reduction, detail enhancement, contrast enhancement and white
enhancement. New image compensation Algorithm gives brighter,
clearer, more detailed image to you. DNIe™ technology visibly
enhances the picture.*

Contents

Contents (continued)

Symbols	Press	Important	Note

Your New Plasma Display Panel

> ➢ The actual configuration on your PDP may be different, depending on your model.

Front Panel

a
SOURCE MENU – ◢ + ∨ C/P.⏻ ∧

b
I/⏻

a **c**

Speaker

Touch button
Touch the printed names of each button using your finger to operate it.
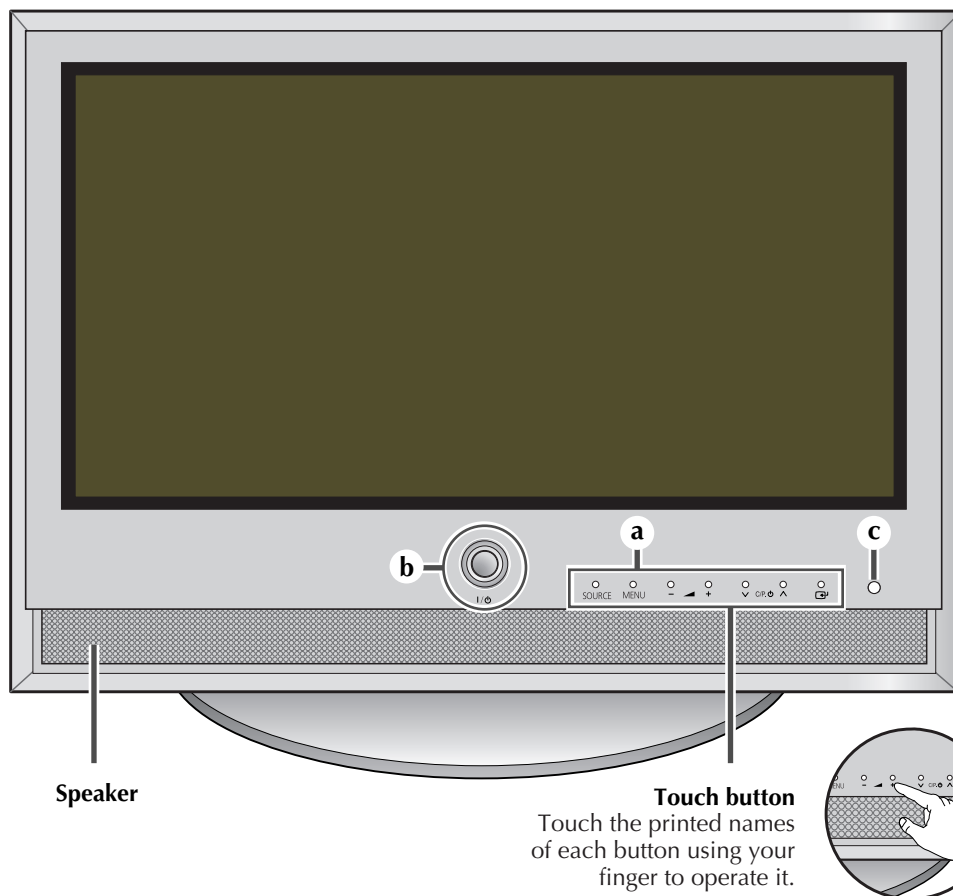
a

SOURCE
External input selection.

MENU
Menu display.

– ◢ +
Volume adjustment.
Also used to select or adjust items on the on-screen menu.

∨ C/P.⏻ ∧
Channel selection. Auto power On.
Also used to move up or down in the on-screen menu.

⊕
Confirm your choice (Store or Enter).

b

I / ⏻
Press to turn the PDP on and off.

Power Indicator
- Power Off: Blue
- Power On: Off

c

Remote Control Signal Receiver
Aim the remote control towards this spot on the PDP.

Your New Plasma Display Panel (continued)

➢ The actual configuration on your PDP may be different, depending on your model.

Rear Panel

➢ For further details about connection, refer to pages 55~59.
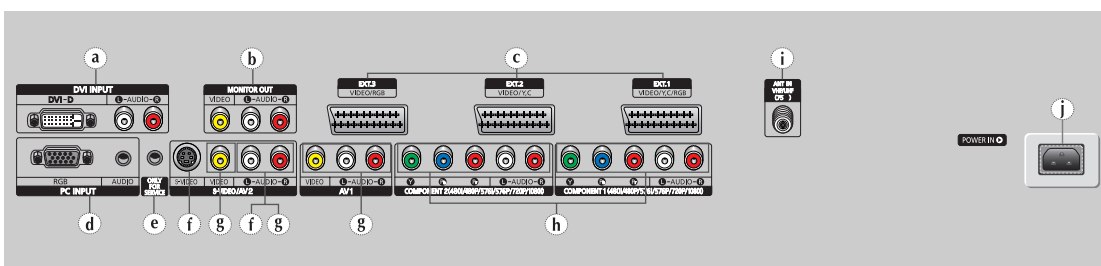
a) **DVI INPUT (DVI-D / L-AUDIO-R)**
   Connect to the digital video and audio output jack for device with DVI output.

b) **MONITOR OUT (VIDEO / L-AUDIO-R)**
   Outputs for external devices.

c) **EXT.1, EXT.2, EXT.3**
   Inputs or outputs for external devices, such as VCR, DVD, video game device or video disc players.

d) **PC INPUT (RGB IN / AUDIO)**
   Connect to the video and audio output jack on your PC.

e) **ONLY FOR SERVICE**
   Connector for service only.

f) **AV2 (S-VIDEO / L-AUDIO-R)**
   Video and audio inputs for external devices with an S-Video output, such as a camcorder or VCR.

g) **AV1, AV2**
   (VIDEO / L-AUDIO-R)
   Video and audio inputs for external devices, such as a camcorder or VCR.

h) **COMPONENT1, COMPONENT2**
   Video (**Y/Pb/Pr**) and audio (**L-AUDIO-R**) inputs for Component.

i) **ANT IN VHF/UHF (75Ω)**
   75Ω Coaxial connector for Aerial/Cable Network.

j) **POWER IN**
   Connect the supplied power cord.

Infrared Remote Control

TURNS THE PDP ON AND OFF

WHEN YOU PRESS A BUTTON , ' ' APPEARS ALONG WITH SELECTED MODE (TV, VCR, CATV, DVD, OR STB) AND REMAINING BATTERIES ON LCD

PICTURE EFFECT SELECTION

SOUND EFFECT SELECTION
TELETEXT CANCEL

MAKE THE REMOTE CONTROL WORKS FOR TV, VCR, CATV, DVD PLAYER, OR STB

DIRECT CHANNEL SELECTION

PICTURE SIZE/
TELETEXT SIZE SELECTION

AUTOMATIC SWITCH-OFF/
TELETEXT SUB-PAGE

NEXT CHANNEL/
TELETEXT NEXT PAGE

VOLUME INCREASE

TEMPORARY SOUND SWITCH-OFF

EXTERNAL INPUT SELECTION/
TELETEXT PAGE HOLD

VOLUME DECREASE

PREVIOUS CHANNEL/
TELETEXT PREVIOUS PAGE

TELETEXT DISPLAY/
MIX BOTH TELETEXT INFORMATION
AND THE NORMAL BROADCAST

INFORMATION DISPLAY/
TELETEXT REVEAL

MENU DISPLAY/
TELETEXT INDEX

TV MODE SELECTION
EXIT TELETEXT
(DEPENDING ON THE MODEL)

MOVE TO THE REQUIRED
MENU OPTION/
ADJUST AN OPTION VALUE
RESPECTIVELY

PICTURE STILL

CONFIRM YOUR CHOICE
(STORE OR ENTER)

DNIe ON/DEMO/OFF

SOUND MODE SELECTION

FASTEXT TOPIC SELECTION

TruSurround XT
MODE SELECTION

PIP FUNCTIONS:
- PIP ACTIVATING OR DEACTIVATING (PIP ON)
- SWAPPING THE MAIN AND THE SUB PICTURE (SWAP)
- LOCATION SELECTION (POSITION)
- SOURCE SELECTION (SOURCE)
- SIZE SELECTION (SIZE)
- SCAN
- SELECTING THE CHANNEL OF SUB PICTURE (P ∧/∨)

REMOTE CONTROL SETUP

IF YOUR REMOTE CONTROL IS NOT FUNCTIONING PROPERLY, TAKE OUT THE BATTERIES AND PRESS THE RESET BUTTON FOR ABOUT 2~3 SECONDS. RE-INSERT THE BATTERIES AND TRY USING THE REMOTE CONTROL AGAIN.

VCR/DVD FUNCTIONS:
- REWIND (REW)
- STOP
- PLAY/PAUSE
- FAST FORWARD (FF)

➤ *The performance of the remote control may be affected by bright light.*

Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

◆ *Purchase the PDP*

◆ *Find that the remote control is no longer operating correctly*
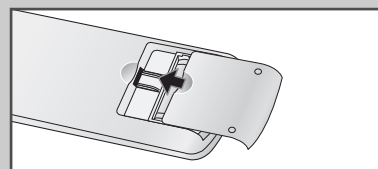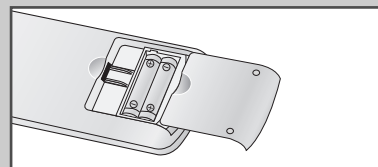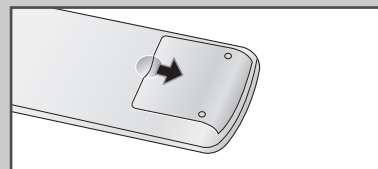
1 Remove the cover on the rear of the remote control by pressing the symbol (▼) downwards and then pulling firmly to remove it.

2 Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
◆ **–** on the battery against **–** on the remote control
◆ **+** on the battery against **+** on the remote control

3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.
Do not mix battery types, i.e. alkaline and manganese.

Assembling the Stand-Base

1 Assemble the PDP with the stand and firmly secure the PDP using 4 screws provided.

➢ ◆ Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always store the PDP upright.
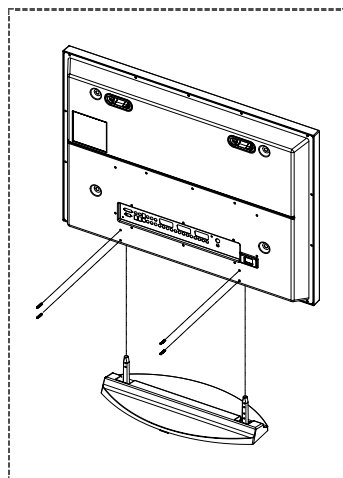
Installing the Display on the Wall Attachment Panel

Installation Notes

◆ Do not install the PDP on any place other than vertical walls.

◆ To protect the performance of the PDP and prevent troubles, avoid the followings:
– Do not install next to smoke and fire detectors.
– Do not install in an area subjected to vibration or high voltage.
– Do not install near or around any heating apparatus.

◆ Use only recommended parts and components.

Mounting Kits (Sold Separately)

Wall Mount Bracket   **Plastic Hanger**   **Screws**
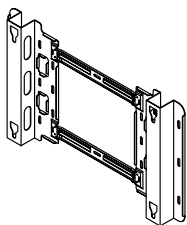
4 EA   4 EA

Installing the Display on the Wall Attachment Panel (continued)

➢ The exterior of the PDP may be different than the picture.
   (Assembly and installation of the plastic hanger is the same.)

1   Remove the screws from the back of the PDP.
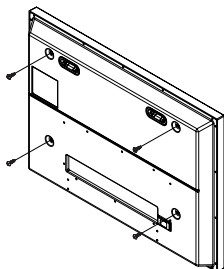
2   Use the screws and assemble the plastic hanger.
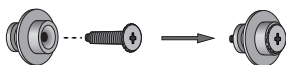
☛   ◆ Please ask the installers to install the wall mount bracket.
    ◆ Please be sure to check if the plastic hanger is
       completely secured on both the left and right side after
       hanging the PDP on the wall mount bracket.
    ◆ Please avoid catching your fingers while installing and
       adjusting the angle.
    ◆ Please tightly secure the wall mount bracket to the wall
       to avoid injury from a falling PDP.

3   Tighten the screws of the plastic hanger to the back side of the PDP.
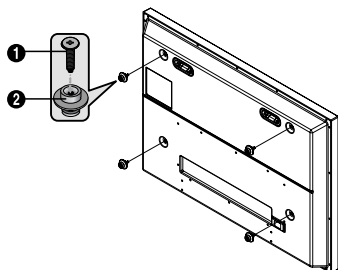
4   Put the 4 pegs on the PDP in the grooves of the wall mount bracket and pull down on the PDP (①) to
     secure it to the wall mount bracket (②). Tighten the screws as shown (③) so that the PDP cannot be
     separated from wall mount bracket.

PDP panel

Wall attachment panel bracket ─ ┌ Wall
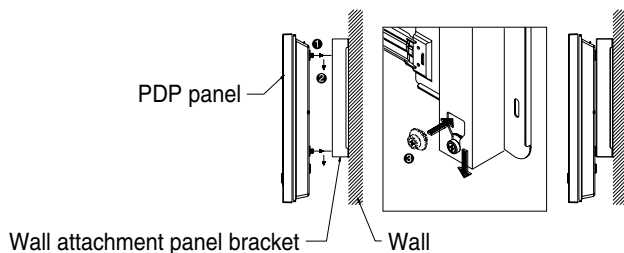
Connecting to an Aerial or Cable Television Network

Rear of the PDP

or

Cable Television
Network
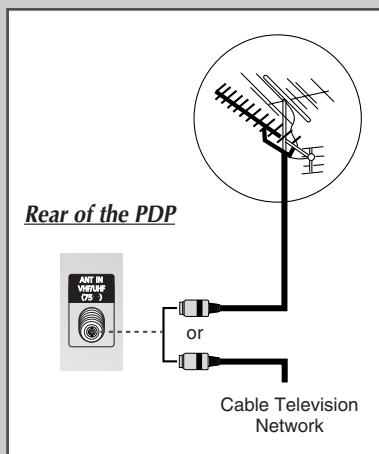
To view television channels correctly, a signal must be received by the set from one of the following sources:

◆ *An outdoor aerial*

◆ *A cable television network*

◆ *A satellite network*

1 In the first three cases, connect the aerial or network input cable to the 75Ω coaxial socket on the rear of the PDP.

2 If you are using an indoor aerial, you may need to turn it when tuning your PDP until you obtain a picture that is both sharp and clear.
For further details, refer to:
◆ "Storing Channels Automatically" on page 18
◆ "Storing Channels Manually" on page 19

➤ When installing or re-installing your PDP, be sure to use the supplied coaxial antenna cable. If you connect using a different coaxial cable, there is risk of noise or interference to the screen image. (You must not use another general purpose cable. Use the 3M/5M/7M cable supplied by Samsung.)

Connecting a Satellite Receiver or Decoder

Rear of the PDP

VIDEO L–AUDIO–R
AV1

or

S–VIDEO VIDEO L–AUDIO–R
S–VIDEO/AV2

**Satellite receiver/
Decoder**
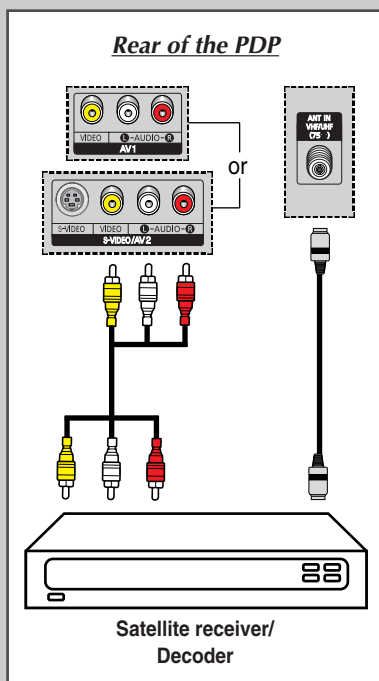
In order to watch television programmes broadcast via a satellite network, you must connect a satellite receiver to the rear of the PDP. Also, in order to descramble a coded transmission signal, you must connect a decoder to the rear of the PDP.

Using a Coaxial cable

Connect a coaxial cable to the:
◆ Receiver (or Decoder) output socket.
◆ Television aerial input socket.

➤ If you wish to connect both a satellite receiver (or decoder) and a VCR, you should connect the:
◆ Receiver (or Decoder) to the VCR
◆ VCR to the PDP

Otherwise, connect the receiver (or decoder) directly to the PDP.

Switching On and Off

The mains lead is attached to the rear of your PDP.

1   Plug the mains lead into an appropriate socket.

   <u>Result</u>:   The Standby indicator on the front of the PDP lights up.

   ➢   The main voltage is indicated on the rear of the PDP and
          the frequency is 50 or 60Hz.

2   Press the " **I /** ⏻ " button on the front of the PDP (or **POWER** (⏻))
      button on the remote control) to switch the PDP on.

   <u>Result</u>:   The programme that you were watching last is re-
          selected automatically.

   ➢   If you have not yet stored any channels, no clear picture
          appears. Refer to "Storing Channels Automatically" on page
          18 or "Storing Channels Manually" on page 19.

3   To switch your PDP off, press the " **I /** ⏻ " button again.

Front of the PDP

POWER

TV

S.MODE   P.MODE   SELECT
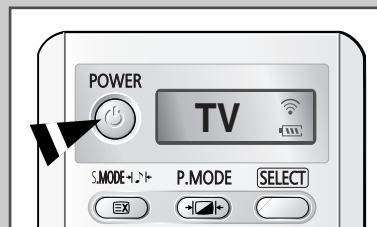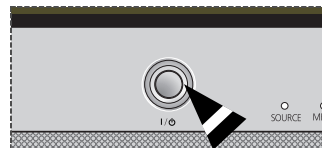
Placing in Standby Mode

Your PDP can be placed in Standby mode, in order to reduce the
Power consumption.

The Standby mode can be useful when you wish to interrupt
viewing temporarily (during a meal, for example).

1   Press the **POWER** (⏻) button on the remote control.

   <u>Result</u>:   The screen is turned off and the Standby indicator on
          the front of the PDP lights.

2   To switch the PDP back on, simply press the **POWER** (⏻) button
      again or a numeric button.

   ➢   You can also switch on by pressing the **P** ⌃ or ⌄ button.

POWER

TV

S.MODE   P.MODE   SELECT

1   2   3
4   5   6
7   8   9
P.SIZE   SLEEP
0

P
SOURCE
MUTE   +

–

TTX/MIX   INFO
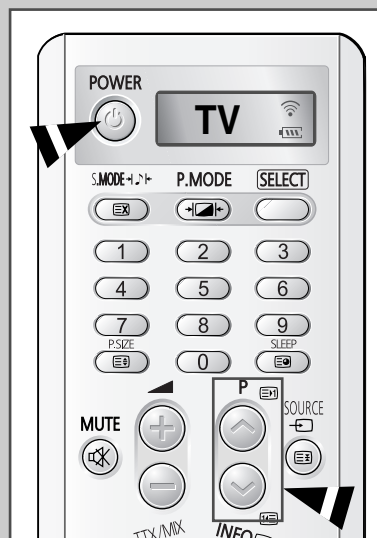
Becoming Familiar with the Remote Control
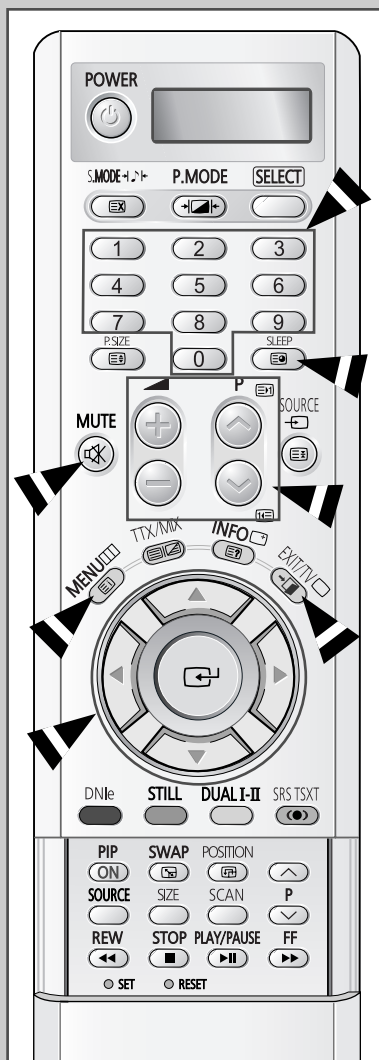
The remote control is used mainly to:

◆ *Change channels and adjust the volume*

◆ *Display the on-screen menu system*

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
(∧)	Used to display the next stored channel.	–
(∨)	Used to display the previous stored channel.	–
0 to 9	Used to display the corresponding channels.	
	➢ For double digit channels, the second digit must be pushed immediately after the first. Failure to do this will result in a single digit channel being displayed.	
SLEEP	Used to select a preset time interval (off - 30 - 60 - 90 - 120 - 150 - 180).	
(+)	Used to increase the volume.	–
(−)	Used to decrease the volume.	–
MUTE ⊠	Used to switch the sound off temporarily.	
	➢ To turn the sound back on, press this button again, or press the (+) or (−) button.	
MENU ▥	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
(arrows)	–	Used to: ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
(↵)	–	Used to confirm your choice.
EXIT/TV →▯	–	Used to exit from the menu system and return to normal viewing directly.

Setting Up Your Remote Control

This PDP's remote control can operate VCR, CATV, DVD, or
Set-Top Box (STB), in addition to controlling the PDP.

➢ *The remote control is not compatible with the TV*
   manufactured by another company.

1　Turn off your VCR, Cable box, DVD or STB.

2　Press the **SELECT** button. Mode is changed whenever **SELECT**
　　button is pressed.

3　Press the **POWER** (⃝) button on the remote control. The
　　component you select should turn on. If it turns on, your remote
　　control is now set correctly.

4　Once your remote control is set up, press the **SELECT** button any
　　time you want to use the remote control to operate your VCR,
　　Cable box, DVD or STB.

　　➢ When your remote control is in the **VCR**, **CATV**, **DVD**, or
　　　STB mode, the volume buttons still control your television's
　　　volume.

➢ To programme the cable receiver controls:
◆ Press the **SELECT** button to select **CATV**.
◆ Point the remote control at the cable receiver and press
　the **SET** button. Then press the company code number(s)
　for the component in page 64.
　Ex) If the component is manufactured by Oak, press 026.

➢ To programme the **VCR** controls:
◆ Press the **SELECT** button to select **VCR**.
◆ Point the remote control at the **VCR** and press the **SET**
　button. Then press the company code number(s) for the
　component in page 65.

➢ To programme the **DVD** controls:
◆ Press the **SELECT** button to select **DVD**.
◆ Point the remote control at the **DVD** and press the **SET**
　button. Then press the company code number(s) for the
　component in page 64.
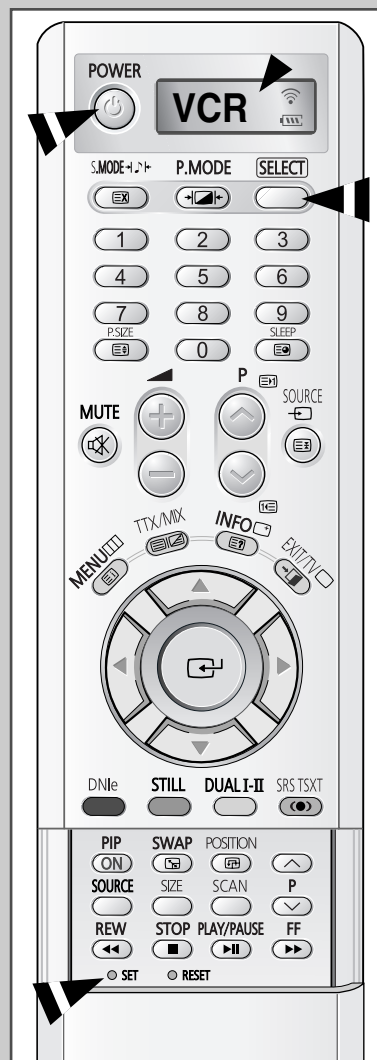
Plug & Play Feature
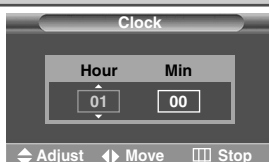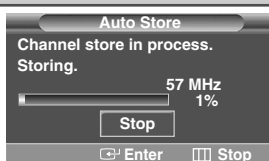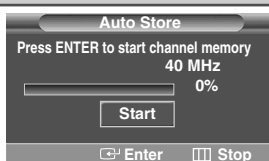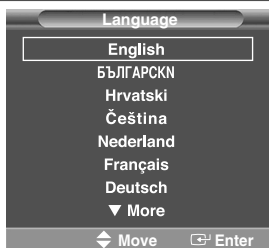
When the television is initially powered ON, several basic customer settings proceed automatically and subsequently. The following settings are available.

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1 If the television is in Standby mode, press the **POWER** (◉) button on the remote control.

  Result: The message **Plug & Play** is displayed, and then the **Language** menu is automatically displayed a few seconds later.

---

2 Select the appropriate language by pressing the ▲ or ▼ button.

---

3 Press the **ENTER** (⊡) button to confirm your choice.

  Result: The message **Antenna Input Check** is displayed.

---

4 Make sure that the antenna is connected to the TV, and then press the **ENTER** (⊡) button.

  Result: The **Country** menu is displayed.

---

5 Select your country by pressing the ▲ or ▼ button.

---

6 Press the **ENTER** (⊡) button to confirm your choice.

  Result: The **Auto Store** menu is displayed.

---

7 To start the search, press the **ENTER** (⊡) button.

  Result: The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range (with lowest first and highest last). When it has finished, the Clock Set menu is displayed.

  ➢ To stop the search before it has finished or return to normal viewing, press the **MENU** (⊞) button.

  ➢ Press the **ENTER** (⊡) button to set the clock.

---

8 Press the ◄ or ► button to move to the hour or minute.
Set the hour or minute by pressing the ▲ or ▼ button.

---

9 When it has finished, the message **Enjoy Your Watching** is displayed, and then the channel which has been stored will be activated.

Plug & Play Feature (continued)

If you want to reset this feature...

1	Press the **MENU** (▥) button.
	<u>Result</u>: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**.
	<u>Result</u>: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Miscellaneous**. Press the **ENTER** (↵) button.
	<u>Result</u>: The options available in the **Miscellaneous** group are displayed.
5	Press the ▲ or ▼ button to select **Plug & Play**. Press the **ENTER** (↵) button.
	<u>Result</u>: The message **Plug & Play** is displayed.
6	For further details on how to set, refer to the opposite page.

```
┌──────────────────────────────────┐
│ TV            Setup              │
│ 📞  Time                      ▶ │
│     Language      : English   ▶ │
│ 🖥  AV Setup                  ▶ │
│     Digital NR    : On        ▶ │
│ 🔊 ┌Miscellaneous────────────▶┐│
│    └PC Setup                 ▶┘│
│ 🏔  Colour Weakness: Off      ▶ │
│ 🗞  Screen Burn Protection    ▶ │
│      ◆ Move   ↵ Enter  ▥ Return │
└──────────────────────────────────┘
```
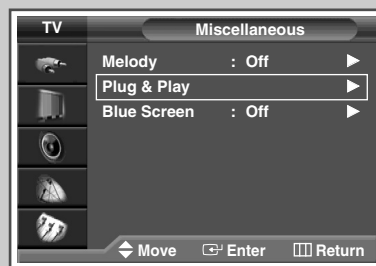
```
┌──────────────────────────────────┐
│ TV         Miscellaneous         │
│ 📞  Melody        : Off       ▶ │
│    ┌Plug & Play              ▶┐ │
│ 🖥 └Blue Screen   : Off      ▶┘ │
│                                  │
│ 🔊                               │
│ 🏔                               │
│ 🗞                               │
│      ◆ Move   ↵ Enter  ▥ Return │
└──────────────────────────────────┘
```

Choosing Your Language

When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1	Press the **MENU** (▥) button.
	<u>Result</u>: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**.
	<u>Result</u>: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button
4	Press the ▲ or ▼ button to select **Language**. Press the **ENTER** (↵) button.
	<u>Result</u>: The available languages are listed.
5	Select the appropriate language by pressing the ▲ or ▼ button.
6	Press the **ENTER** (↵) button to confirm your choice.
7	When you are satisfied with your choice, press the **EXIT/TV** (⊸▯) button to return to normal viewing.

```
┌──────────────────────────────────┐
│ TV            Setup              │
│ 📞  Time                      ▶ │
│    ┌Language     : English   ▶┐ │
│ 🖥 └AV Setup                 ▶┘ │
│     Digital NR   : On         ▶ │
│ 🔊  Miscellaneous             ▶ │
│     PC Setup                  ▶ │
│ 🏔  Colour Weakness: Off      ▶ │
│ 🗞  Screen Burn Protection    ▶ │
│      ◆ Move   ↵ Enter  ▥ Return │
└──────────────────────────────────┘
```

```
┌──────────────────────────────────┐
│ TV            Setup              │
│ 📞  Time          ┌── English ──┐│
│     Language    : │ БЪЛГАРСКN   ││
│ 🖥  AV Setup      │  Hrvatski   ││
│     Digital NR  : │  Čeština    ││
│ 🔊  Miscellaneous │  Nederland  ││
│     PC Setup      │  Français   ││
│ 🏔  Colour Weakness:│    ▼      ││
│ 🗞  Screen Burn Protec└─────────┘│
│      ◆ Move   ↵ Enter  ▥ Return │
└──────────────────────────────────┘
```

Storing Channels Automatically

You can scan for the frequency ranges available to you, (availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.
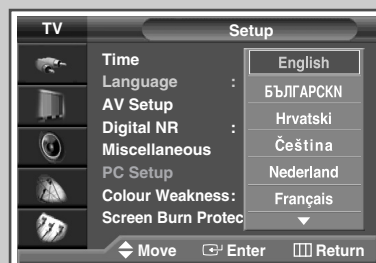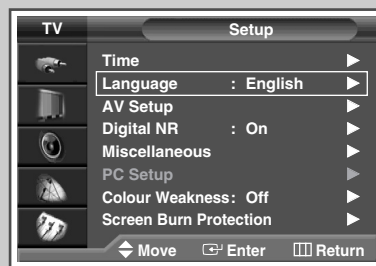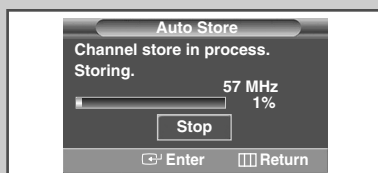
1 Press the **MENU** (⫿⫿) button.

   <u>Result</u>:   The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

   <u>Result</u>:   The options available in the **Channel** group are displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **Country**.
Press the **ENTER** (⏎) button.

   <u>Result</u>:   The countries available are listed.

5 Select your country (or area) by pressing the ▲ or ▼ button.

   ➢ If you have selected the **Others** option but do not wish to scan the PAL frequency range, store the channels manually (see page 19).

6 Press the **ENTER** (⏎) button to confirm your choice.

7 Press the ▲ or ▼ button to select **Auto Store**.
Press the **ENTER** (⏎) button.

   <u>Result</u>:   The **Auto Store** menu is displayed.

8 Press the **ENTER** (⏎) button to start the search.

   <u>Result</u>:   The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). The programme originally selected is then displayed.

   ➢ To stop the search before it has finished, press the **MENU** (⫿⫿) button.

9 When the channels have been stored, you can:
- Sort them in the order required (see page 22)
- Clear a channel (see page 21)
- Fine-tune channel reception if necessary (see page 31)
- Assign a name to the stored channels (see page 23)
- Activate/deactivate the Digital Noise Reduction feature (see page 41)

Storing Channels Manually

You can store up to 100 television channels, including those received via cable networks.

When storing channels manually, you can choose:

◆ *Whether or not to store each of the channels found*

◆ *The programme number of each stored channel which you wish to identify*

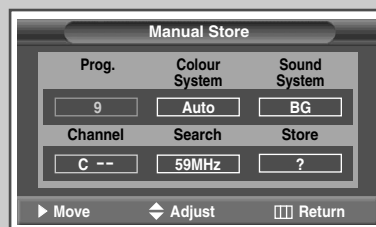|		
TV	**Channel**	
	Country : Austria	►
	Auto Store	►
	Manual Store	►
	Edit	►
	Fine Tune	►
	Ch. Scan	►
	◆ Move ⊡ Enter ⊞ Return	

1   Press the **MENU** (⊞) button.

Result: The main menu is displayed.

2   Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3   Press the **ENTER** (⊡) button.

Manual Store		
Prog.	Colour System	Sound System
9	Auto	BG
Channel	Search	Store
C --	59MHz	?
▶ Move	◆ Adjust	⊞ Return

4   Press the ▲ or ▼ button to select **Manual Store**.
Press the **ENTER** (⊡) button.

Result: The option available in the **Manual Store** group are displayed with **Prog.** is selected.

5   To assign a programme number to a channel, find the correct number by pressing the ▲ or ▼ button.

Manual Store		
Prog.	Colour System	Sound System
9	Auto	BG
Channel	Search	Store
C --	59MHz	?
◀▶ Move	◆ Adjust	⊞ Return

6   If necessary, select the broadcasting standard required. Press the ◀ or ▶ button to select **Colour System** and press the ▲ or ▼ button. The colour standards are displayed in the following order (depending on the model).

```
Auto – PAL – SECAM or
Auto – NT3.58 – NT4.43 – PAL60
```

Manual Store		
Prog.	Colour System	Sound System
9	Auto	BG
Channel	Search	Store
C --	59MHz	?
◀▶ Move	◆ Adjust	⊞ Return

7   Press the ◀ or ▶ button to select **Sound System** and press the ▲ or ▼ button. The sound standards are displayed in the following order (depending on the model).

```
BG – DK – I – L
```

Manual Store

Prog.	Colour System	Sound System
9	Auto	BG
Channel	**Search**	**Store**
C --	59MHz	?

◀▶ Move ♦ Adjust ▥ Return

Manual Store

Prog.	Colour System	Sound System
9	Auto	BG
Channel	**Search**	**Store**
C 02	59MHz	?

◀▶ Move ♦ Adjust ▥ Return

Manual Store

Prog.	Colour System	Sound System
9	Auto	BG
Channel	**Search**	**Store**
C 02	59MHz	?

◀▶ Move ♦ Adjust ▥ Return

Manual Store

Prog.	Colour System	Sound System
9	Auto	BG
Channel	**Search**	**Store**
C 02	59MHz	OK

◀▶ Move ↵ Enter ▥ Return

8 If you know the number of the channel to be stored, see the following steps.

◆ Press the ◀ or ▶ button to select **Channel**.

◆ Press the ▲ or ▼ button to select **C** (Aerial channel) or **S** (Cable channel).

◆ Press the ▶ button.

◆ Press the numeric buttons (0~9), ▲ or ▼ button to indicate the desired channel number.

➢ If there is no sound or noise only, try a different sound standard.

9 If you do not know the channel numbers, select the **Search** by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to start the search.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

10 To assign a programme number to a channel, select the **Prog.** by pressing the ◀ or ▶ button. Press the ▲ or ▼ button until you find the correct number.

11 To store the channel and associated programme number, select the **Store** by pressing the ◀ or ▶ button. Press the **ENTER** (↵) button.

12 Repeat Steps **8** to **11** for each channel to be stored.

☞ *Channel mode*

◆ **P** (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to P99. You can select a channel by entering the position number in this mode.

◆ **C** (Real channel mode): You can select a channel by entering the assigned number to each aerial broadcasting station in this mode.

◆ **S** (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.

Skipping Unwanted Channels

◆ *Skipping unwanted channels*

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are thus not displayed. All channels that you do not specifically choose to skip are displayed during scanning.

1 Press the **MENU** (▭) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**. Press the **ENTER** (↵) button.

Result: The **Edit** menu is displayed.

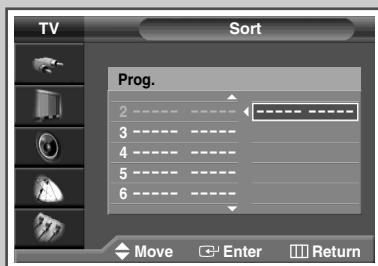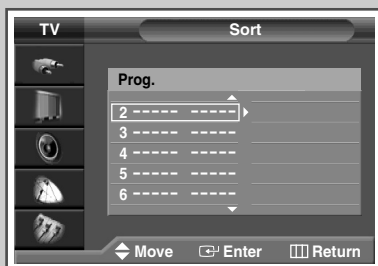**5** Press the ▲ or ▼ button to select **Add/Delete**. Press the **ENTER** (↵) button.

Result: The **Add/Delete** menu is displayed with the current channel automatically is selected.

6 Press the ▲ or ▼ button to select the channel to be deleted. Press the **ENTER** (↵) button.

7 To add or delete the channel, select **Added** or **Deleted** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button to confirm.

TV	Channel	
	Country	: Austria ▶
	Auto Store	▶
	Manual Store	▶
	Edit	▶
	Fine Tune	▶
	Ch. Scan	▶
	◆ Move ↵ Enter ▭ Return	

TV	Edit	
	Add/Delete	▶
	Sort	▶
	Name	▶
	LNA	: Off ▶
	Child Lock	▶
	◆ Move ↵ Enter ▭ Return	

TV	Add/Delete	
	Prog.	
	1 ----- -----	Added
	2 ----- -----	Deleted
	3 ----- -----	Deleted
	4 ----- -----	Deleted
	5 ----- -----	Deleted
	◆ Move ↵ Enter ▭ Return	

TV	Add/Delete	
	Prog.	
	1 ----- -----	Added
	2 ----- -----	Deleted
	3 ----- -----	Deleted ◆
	4 ----- -----	Deleted
	5 ----- -----	Deleted
	◆ Adjust ↵ Enter ▭ Return	

Sorting the Stored Channels

This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using ATM. You can delete those channels you do not want to keep.

TV — Channel

- Country : Austria ►
- Auto Store ►
- Manual Store ►
- Edit ►
- Fine Tune ►
- Ch. Scan ►

◆ Move ↵ Enter Return

TV — Edit

- Add/Delete ►
- Sort ►
- Name ►
- LNA : Off ►
- Child Lock ►

◆ Move ↵ Enter Return

TV — Sort

Prog.

2 ----- -----
3 ----- -----
4 ----- -----
5 ----- -----
6 ----- -----

◆ Move ↵ Enter Return

TV — Sort

Prog.

2 ----- ----- ----- -----
3 ----- -----
4 ----- -----
5 ----- -----
6 ----- -----

◆ Move ↵ Enter Return

---

1 Press the **MENU** (▯▯) button.

   Result: The main menu is displayed.

---

2 Press the ▲ or ▼ button to select **Channel**.

   Result: The options available in the **Channel** group are displayed.

---

3 Press the **ENTER** (↵) button.

---

4 Press the ▲ or ▼ button to select **Edit**.
   Press the **ENTER** (↵) button.

   Result: The **Edit** menu is displayed.

---

5 Press the ▲ or ▼ button to select **Sort**.
   Press the **ENTER** (↵) button.
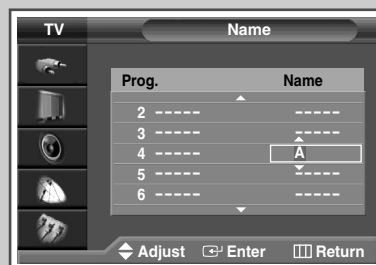
   Result: The **Sort** menu is displayed.

---

6 Select the channel that you wish to move by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

---

7 Select the number of the programme to which the channel is to be moved by pressing the ▲ or ▼ button.
   Press the **ENTER** (↵) button.

   Result: The channel is moved to its new position and all other channels are shifted accordingly.

---

8 Repeat Steps **6** to **7** until you have moved all the channels to the required programme numbers.

Assigning Names to Channels

Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1   Press the **MENU** (▢▢▢) button.

Result: The main menu is displayed.

2   Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3   Press the **ENTER** (⏎) button.

4   Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (⏎) button.

Result: The **Edit** menu is displayed.

5   Press the ▲ or ▼ button to select **Name**.
Press the **ENTER** (⏎) button.

Result: The **Name** menu is displayed with the current channel automatically is selected.

6   If necessary, select the channel to be assigned a new name by pressing the ▲ or ▼ button. Press the **ENTER** (⏎) button.

Result: Arrow indications are displayed around the name box.

7   Press the ▲ or ▼ button to select a letter (A~Z), a number (0~9) or a symbol (–, space). Move on the previous or next letter by pressing the ◀ or ▶ button.

8   When you have finished entering the name, press the **ENTER** (⏎) button to confirm the name.

TV	Channel	
	Country : Austria	▶
	Auto Store	▶
	Manual Store	▶
	Edit	▶
	Fine Tune	▶
	Ch. Scan	▶
	◆ Move ⏎ Enter ▢▢ Return	

TV	Edit	
	Add/Delete	▶
	Sort	▶
	Name	▶
	LNA : Off	▶
	Child Lock	▶
	◆ Move ⏎ Enter ▢▢ Return	

TV	Name	
	Prog.	Name
	2 -----	-----
	3 -----	-----
	4 -----	-----
	5 -----	-----
	6 -----	-----
	◆ Move ⏎ Enter ▢▢ Return	

TV	Name	
	Prog.	Name
	2 -----	-----
	3 -----	-----
	4 -----	A
	5 -----	-----
	6 -----	-----
	◆ Adjust ⏎ Enter ▢▢ Return	

Using the LNA (Low Noise Amplifier) Feature

TV	Channel	
📺	**Country** : **Austria**	►
	Auto Store	►
🎵	**Manual Store**	►
🔘	**Edit**	►
	Fine Tune	►
🔺	**Ch. Scan**	►
🎵		
	◆ **Move** ↵ **Enter** ▥ **Return**	

TV	Edit	
📺	**Add/Delete**	►
	Sort	►
🎵	**Name**	►
🔘	**LNA** : **Off**	►
	Child Lock	►
🔺		
🎵		
	◆ **Move** ↵ **Enter** ▥ **Return**	

TV	Edit	
📺	**Add/Delete**	
	Sort	
🎵	**Name**	
🔘	**LNA** :	Off
	Child Lock	On
🔺		
🎵		
	◆ **Move** ↵ **Enter** ▥ **Return**	

This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area, but not noise.

1 Press the **MENU** (▥) button.

　　　Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

　　　Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Edit**.
　　Press the **ENTER** (↵) button.

　　　Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **LNA**.
　　Press the **ENTER** (↵) button.

　　　Result: The options available are listed.

6 Select **On** or **Off** by pressing the ▲ or ▼ button.
　　Press the **ENTER** (↵) button to confirm.

➢　　◆ If the picture is noisy with the **LNA** set to **On**, select **Off**.

　　　◆ **LNA** setting is to be made for each channel.

Activating the Child Lock

◆ *Activating the child lock*

This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. Thus, by keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programmes.

1 Press the **MENU** (▯▯▯) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

Result: The options available in the **Channel** group are displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **Edit**.
Press the **ENTER** (⏎) button.

Result: The **Edit** menu is displayed.

5 Press the ▲ or ▼ button to select **Child Lock**.
Press the **ENTER** (⏎) button.

Result: The **Child Lock** menu is displayed with the current channel automatically is selected.
Blue Screen is displayed when the **Child Lock** is activated.
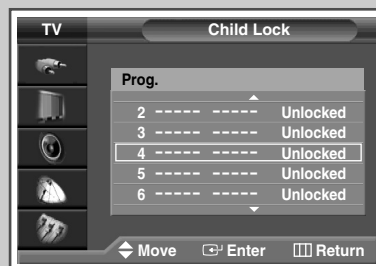
6 Press the ▲ or ▼ button to select the channel to be locked.

7 Press the **ENTER** (⏎) button. To lock the channel, select **Locked** by pressing the ▲ or ▼ button (to unlock the channel, select **Unlocked**). Press the **ENTER** (⏎) button to confirm.

TV	Channel	
	Country : Austria	►
	Auto Store	►
	Manual Store	►
	Edit	►
	Fine Tune	►
	Ch. Scan	►
	◆ Move ⏎ Enter ▯▯▯ Return	

TV	Edit	
	Add/Delete	►
	Sort	►
	Name	►
	LNA : Off	►
	Child Lock	►
	◆ Move ⏎ Enter ▯▯▯ Return	

TV	Child Lock	
	Prog.	
	2 ----- -----	Unlocked
	3 ----- -----	Unlocked
	4 ----- -----	Unlocked
	5 ----- -----	Unlocked
	6 ----- -----	Unlocked
	◆ Move ⏎ Enter ▯▯▯ Return	

TV	Child Lock	
	Prog.	
	2 ----- -----	Unlocked
	3 ----- -----	Unlocked
	4 ----- -----	Unlocked⬍
	5 ----- -----	Unlocked
	6 ----- -----	Unlocked
	◆ Adjust ⏎ Enter ▯▯▯ Return	

Displaying Information

You can view the channel information and setting status you select by pressing the "INFO (⬚⁺)" button on the remote control.
The information displayed varies according to the selected source.

P 1 ✳

Mono

Picture : Dynamic
Sound   : Music
00 : 00
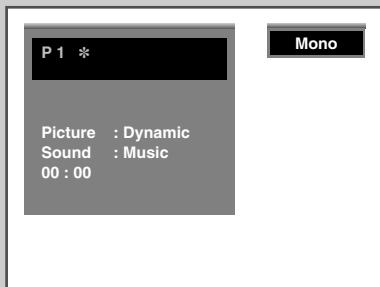
Changing the Picture Standard

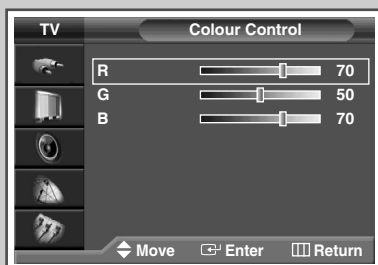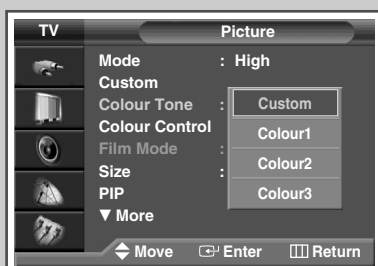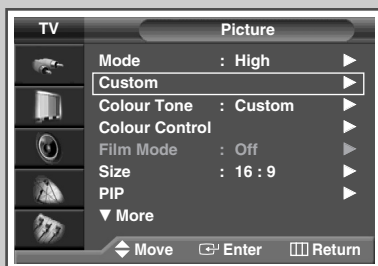*You can select the type of picture which best corresponds to your viewing requirements.*
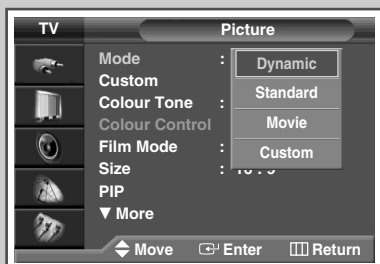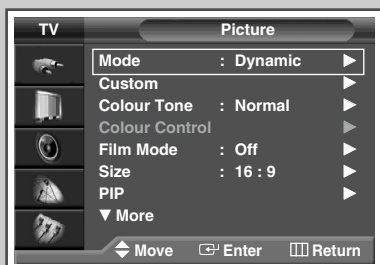
TV	Picture
Mode	: Dynamic ▶
Custom	▶
Colour Tone	: Normal ▶
Colour Control	▶
Film Mode	: Off ▶
Size	: 16 : 9 ▶
PIP	▶
▼ More	
◆ Move ⏎ Enter ▥ Return	

TV	Picture
Mode	: Dynamic
Custom	Standard
Colour Tone	: Movie
Colour Control	Custom
Film Mode	:
Size	: 16 : 9
PIP	
▼ More	
◆ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button.
   Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
   Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (⏎) button.
   Result: The **Mode** is selected.

4 Press the **ENTER** (⏎) button again.
   Result: The options available are listed.

5 Select the option by pressing the ▲ or ▼ button.
   Result: The following modes are available depending on the input source.
   ◆ **Dynamic – Standard – Movie – Custom**
   ◆ **High – Middle – Low – Custom**
     (PC or DVI Mode).

6 Press the **ENTER** (⏎) button to confirm.

➢   You can also set these options simply by pressing the **P.MODE** (◁◢▷ : Picture Mode) button.

Adjusting the Picture Settings

*Your television has several settings which allow you to control
picture quality.*

1 Press the **MENU** (⬚⬚⬚) button.

   <u>Result</u>:　The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

   <u>Result</u>:　The options available in the **Picture** group are
   displayed.

3 Press the **ENTER** (↵) button.

4 Select the required option (**Custom**, **Colour Tone**) pressing the
   ▲ or ▼ button.

5 Press the ▲ or ▼ button to select **Custom**.
   Press the **ENTER** (↵) button.

   <u>Result</u>:　The **Custom** menu is displayed.

6 Press the **ENTER** (↵) button to change the setting.
   The options are displayed in the following order.

   ◆ **Custom** : **Contrast**, **Brightness**, **Sharpness**, **Colour**,
      Tint(NTSC ONLY)

   ➢ **Custom** Options available in **PC**, **DVI** Mode: **Contrast**,
      Brightness, **Sharpness**.

   ➢ The horizontal bar is displayed. Move the horizontal bar's
      cursor left or right by pressing the ◄ or ► button.

   ➢ When the picture mode is set to **Custom**, the settings values
      may vary depending on the input source.
      (ex. RF, Video, Component, PC or DVI)

   ➢ If you make any changes to these settings, the picture
      standard is automatically switched to the **Custom**.

   ◆ **Colour Tone** : **Cool2**, **Cool1**, **Normal**, **Warm1**, **Warm2**

7 When you are satisfied with the settings, press the **EXIT/TV** (→◻)
   button to return to normal viewing.

   ➢ If you make any changes to these settings, the picture
      standard is automatically switched to the **Custom**.

TV	Picture	
	Mode	: Dynamic ►
	Custom	►
	Colour Tone	: Normal ►
	Colour Control	►
	Film Mode	: Off ►
	Size	: 16 : 9 ►
	PIP	►
	▼ More	
	◆ Move　↵ Enter　⬚ Return	

TV	Custom	
	Contrast	70
	Brightness	50
	Sharpness	70
	Colour	50
	Tint　G50	R50
	◆ Move　↵ Enter　⬚ Return	

Contrast	70

TV	Picture	
	Mode	: Dynamic
	Custom	
	Colour Tone	: Cool2
	Colour Control	Cool1
	Film Mode	: Normal
	Size	: Warm1
	PIP	Warm2
	▼ More	
	◆ Move　↵ Enter　⬚ Return	
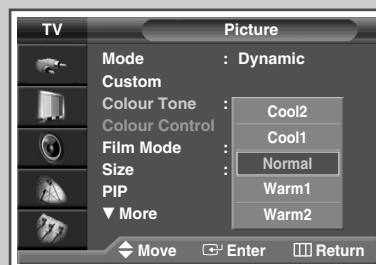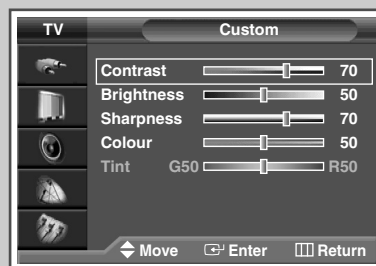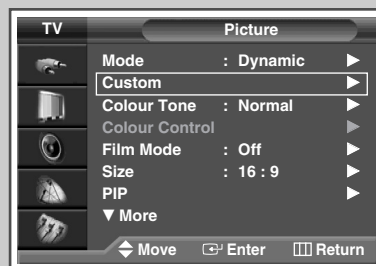
Adjusting the Picture Settings (PC or DVI Mode)

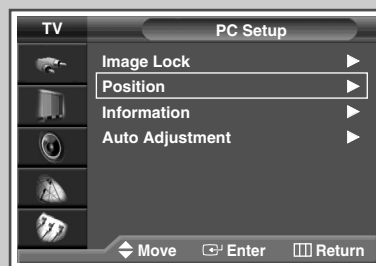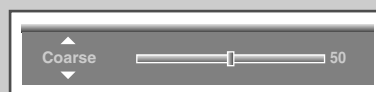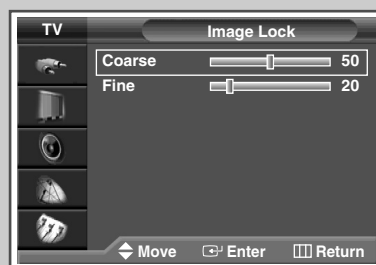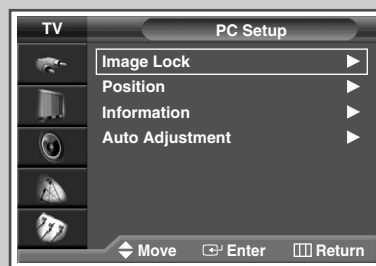➢ Preset to the **PC** or **DVI** mode by using the **SOURCE** button.

TV	**Picture**	
👆	Mode : High	►
	Custom	►
🎴	Colour Tone : Custom	►
	Colour Control	►
🔘	Film Mode : Off	►
	Size : 16 : 9	►
🏔	PIP	►
🎏	▼ More	
	◆ Move ⏎ Enter ▥ Return	

TV	**Custom**	
👆	Contrast ▭▭▭▯▭	70
🎴	Brightness ▭▭▯▭▭	50
	Sharpness ▭▭▭▯▭	70
🔘	Colour ▭▭▯▭▭	50
	Tint G50 ▭▭▭▯▭ R50	
🏔		
🎏	◆ Move ⏎ Enter ▥ Return	

TV	**Picture**	
👆	Mode : High	
	Custom	
🎴	Colour Tone :	Custom
	Colour Control	Colour1
🔘	Film Mode :	Colour2
	Size :	Colour3
🏔	PIP	
🎏	▼ More	
	◆ Move ⏎ Enter ▥ Return	

TV	**Colour Control**	
👆	R ▭▭▭▯▭	70
🎴	G ▭▭▯▭▭	50
🔘	B ▭▭▭▯▭	70
🏔		
🎏	◆ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button.

    <u>Result</u>:   The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

    <u>Result</u>:   The options available in the **Picture** group are displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **Custom**.
Press the **ENTER** (⏎) button.

    <u>Result</u>:   The **Custom** menu is displayed.

5 Press the ▲ or ▼ button to select the option (**Contrast**, **Brightness**, **Sharpness**) to be adjusted.
Press the **ENTER** (⏎) button.

    <u>Result</u>:   The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.

6 Press the **MENU** (▥) button to confirm your choice.

7 Press the **MENU** (▥) button.

    <u>Result</u>:   The options available in the **Picture** group are displayed again.

8 Press the ▲ or ▼ button to select **Colour Tone**.
Press the **ENTER** (⏎) button.

9 Select the option by pressing the ▲ or ▼ button. The colour tones are displayed in the following order.

    Custom (PC mode only) **– Colour1 – Colour2 – Colour3**

10 Press the **MENU** (▥) button.

    <u>Result</u>:   The options available in the **Picture** group are displayed again.

11 Press the ▲ or ▼ button to select **Colour Control**.
Press the **ENTER** (⏎) button.

    <u>Result</u>:   The **Colour Control** menu is displayed.

12 Press the ▲ or ▼ button to select the option (**R**, **G**, **B**) to be adjusted. Press the **ENTER** (⏎) button.

    <u>Result</u>:   The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.

➢ The Colour Control is not available in the DVI Mode.

Setting the Picture (PC Mode)

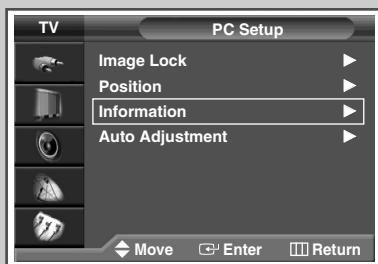➢ Preset to the **PC** mode by using the **SOURCE** button.

1	Press the **MENU** (▯▯) button.
	<u>Result</u>: The main menu is displayed.

2	Press the ▲ or ▼ button to select **Setup**.
	<u>Result</u>: The options available in the **Setup** group are displayed.

3	Press the **ENTER** (↵) button.

4	Press the ▲ or ▼ button to select **PC Setup**. Press the **ENTER** (↵) button.
	<u>Result</u>: The options available in the **PC Setup** group are displayed.

5	Press the ▲ or ▼ button to select **Image Lock.** Press the **ENTER** (↵) button.
	<u>Result</u>: The options available in the **Image Lock** group are displayed.

6	Press the ▲ or ▼ button to select the option (**Coarse**, **Fine**) to be adjusted. Press the **ENTER** (↵) button.
	<u>Result</u>: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

7	Press the **MENU** (▯▯) button to confirm your choice.

8	Press the **MENU** (▯▯) button.
	<u>Result</u>: The options available in the **PC Setup** group are displayed again.

9	Press the ▲ or ▼ button to select **Position**. Press the **ENTER** (↵) button.
	<u>Result</u>: The options available in the **Position** group are displayed.

10	Adjust the position by using the ▲, ▼, ◀, or ▶ button.

11	Press the **MENU** (▯▯) button to confirm your choice.

TV — **Setup**
Time ►
Language : English ►
AV Setup ►
Digital NR : On ►
Miscellaneous ►
PC Setup ►
Colour Weakness: Off ►
Screen Burn Protection ►
◆ Move ↵ Enter ▯▯ Return

TV — **PC Setup**
Image Lock ►
Position ►
Information ►
Auto Adjustment ►
◆ Move ↵ Enter ▯▯ Return

TV — **Image Lock**
Coarse ▭ 50
Fine ▭ 20
◆ Move ↵ Enter ▯▯ Return

Coarse ▭ 50

TV — **PC Setup**
Image Lock ►
Position ►
Information ►
Auto Adjustment ►
◆ Move ↵ Enter ▯▯ Return

TV — **Position**
◆ Move ◀▶ Move ▯▯ Return
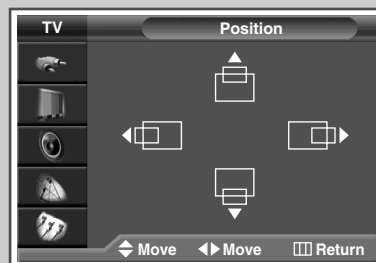
Setting the Picture (PC Mode) (continued)

➢ Preset to the **PC** mode by using the **SOURCE** button.

TV	PC Setup
☞	
🖳	Image Lock ▶
	Position ▶
	Information ▶
◉	Auto Adjustment ▶
🔺	
🎇	
	◆ Move ⏎ Enter ▦ Return

TV	Information
☞	
🖳	
	Resolution : 1024 ✳ 768
◉	H-Frequency : 48.5KHz
	V-Frequency : 60.2Hz
🔺	
🎇	
	▦ Return

TV	PC Setup
☞	
🖳	Image Lock ▶
	Position ▶
	Information ▶
◉	Auto Adjustment ▶
🔺	
🎇	
	◆ Move ⏎ Enter ▦ Return

TV	Auto Adjustment
☞	
🖳	
◉	Auto Adjusting
🔺	
🎇	

12 If you get the PC information, select the **Information** by pressing the ▲ or ▼ button. Press the **ENTER** (⏎) button.

    <u>Result</u>:   The resolution, horizontal and vertical frequency are displayed.
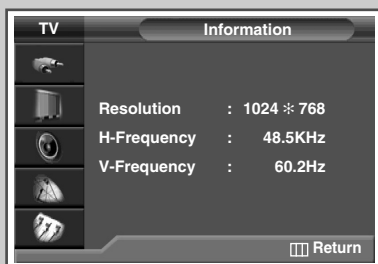
13 Press the **MENU** (▦) button.

    <u>Result</u>:   The options available in the **PC Setup** group are displayed again.

14 Press the ▲ or ▼ button to select **Auto Adjustment**. Press the **ENTER** (⏎) button.

    <u>Result</u>:   The screen quality and position are automatically reset with the **Auto Adjusting** displayed.
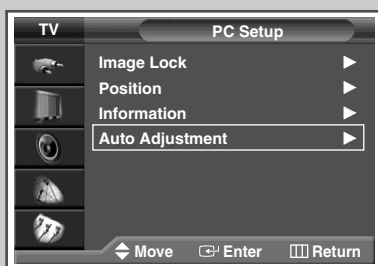
15 When you are satisfied with the settings, press the **MENU** (▦) button repeatedly to return to the normal viewing.

Using the Fine Tune

If reception is weak, you can fine tune a channel manually.

1   Press the **MENU** (▥) button.

     <u>Result</u>:   The main menu is displayed.

2   Press the ▲ or ▼ button to select **Channel**.

     <u>Result</u>:   The options available in the **Channel** group are displayed.

3   Press the **ENTER** (↵) button.

4   Press the ▲ or ▼ button to select **Fine Tune**.
       Press the **ENTER** (↵) button.

     <u>Result</u>:   The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button to reach the required setting.

5   Press the ◄ or ► button until the picture and sound are both clear and sharp. Press the **ENTER** (↵) button.

6   To reset the fine tuning to **0**, select **Reset** by pressing the ▲ or ▼ button then press the **ENTER** (↵) button.

➢   If you are unable to fine tune a channel, check that the **Colour System** and **Sound System** settings are correct.

➢   Fine tune Store will change the colour of the Channel **OSD**(On Screen Display) from **White** to **Red**.

TV	Channel
	Country : Austria ►
	Auto Store ►
	Manual Store ►
	Edit ►
	Fine Tune ►
	Ch. Scan ►
	◆ Move ↵ Enter ▥ Return

Fine Tune

P 1

[▭▭▭▭ ▯ ▭▭▭▭▭]   0

Reset   Return

◆ Move   ◄► Adjust   ↵ Store

Fine Tune

P 1

[▭▭▭▭▭▭ ▯ ▭▭▭]   3

Reset   Return

◆ Move   ◄► Adjust   ↵ Store

Fine Tune

P 1 is fine tuned

[▭▭▭▭▭▭ ▯ ▭▭▭]   3

Reset   Return

◆ Move   ◄► Adjust   ↵ Store

P1   C11

Viewing the Channel Scan Picture
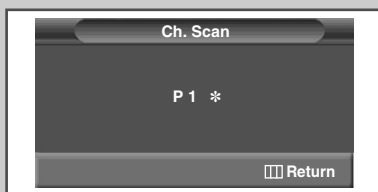
TV	Channel
	Country : Austria ►
	Auto Store ►
	Manual Store ►
	Edit ►
	Fine Tune ►
	Ch. Scan ►
	◆ Move ⏎ Enter ▥ Return

```
          Ch. Scan


          P 1  ✳


                        ▥ Return
```

1 Press the **MENU** (▥) button.

   <u>Result:</u>   The main menu is displayed.

2 Press the ▲ or ▼ button to select **Channel**.

   <u>Result:</u>   The options available in the **Channel** group are
              displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **Ch. Scan**.
     Press the **ENTER** (⏎) button.

   <u>Result:</u>   You can view every memorized channel in order.

5 Press the **MENU** (▥) button to exit.

> ➢   When PIP ON is activated, the PIP will appear in Large
>   mode and PIP channel will be scanned.

Freezing the Current Picture
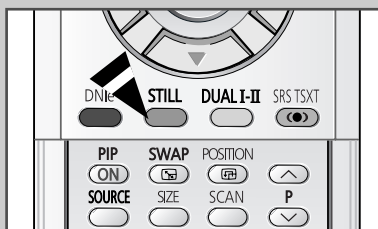
*You can freeze the picture when watching a television programme
simply by pressing the "STILL" button. To return to normal viewing,
press it again.*

> ➢   In the PIP mode, the main and sub pictures are stilled at
>   the same time.

> ➢   This function will automatically cancel after 5 minutes.

Selecting the Picture Size

You can select the picture size which best corresponds to your viewing requirements.

1	Press the **MENU** (▢▢) button.
	<u>Result</u>: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Picture**.
	<u>Result</u>: The options available in the **Picture** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button until the **Size** is selected. Press the **ENTER** (↵) button.
5	Press the ▲ or ▼ button to change the setting.

    ◆ **Auto Wide** : Expanding and pulling up the picture from **4:3** to **16:9** ratio.

    ◆ **16:9** : Sets the picture to **16:9** wide mode.

    ◆ **Panorama** : Use this mode for the wide aspect ratio of a panoramic picture.

    ◆ **Zoom** : Magnify the size of the picture vertically on screen.

    ◆ **14:9** : Magnify the size of the picture more than **4:3**.

    ◆ **4:3** : Sets the picture to **4:3** normal mode.

6	Press the **ENTER** (↵) button to confirm.

➢   ◆ You can select these options by simply pressing the **P.SIZE** button on the remote control.

    ◆ The picture size can not be changed in the PIP mode.

    ◆ Depending on the input source, the **P.SIZE** options may vary.

Positioning and Sizing the screen using Zoom

➢   ◆ Resizing the screen using the **Zoom** enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.

    ◆ Move the screen up/down using the ▲ or ▼ button after selecting the 🔲 by pressing the ▲ or ▼ button.

    ◆ Resize the screen vertically using the ▲ or ▼ button after selecting the 🔲 by pressing the ▲ or ▼ button.

    ◆ Screen enlargement operates only in TV/Video/ S-Video/Component1, 2 input modes.

    ◆ PC/DVI modes prevents the screen enlargement function.

TV	Picture	
	Mode : Dynamic	►
	Custom	►
	Colour Tone : Normal	►
	Colour Control	►
	Film Mode : Off	►
	Size : 16 : 9	►
	PIP	►
	▼ More	
	◆ Move ↵ Enter ▢▢ Return	

TV	Size
	Auto Wide
	16:9
	Panorama
	Zoom
	14:9
	4:3
	◆ Move ↵ Enter ▢▢ Return

PC to DVI Mode

TV	Size
	Auto Wide
	16:9
	Panorama
	Zoom
	14:9
	4:3
	◆ Move ↵ Enter ▢▢ Return
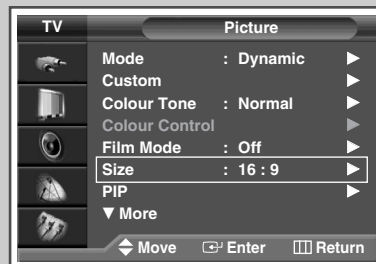
Selecting the Film Mode
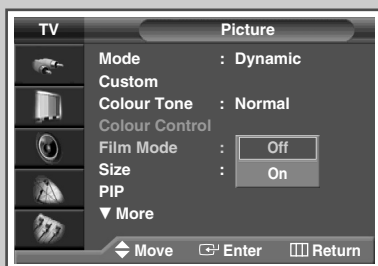
You can automatically detect and process film signals from some sources and adjust the picture for optimum quality.

	TV	Picture
	Mode	: Dynamic ▶
	Custom	
	Colour Tone	: Normal ▶
	Colour Control	▶
	Film Mode	**: Off** ▶
	Size	: 16 : 9 ▶
	PIP	▶
	▼ More	
	◆ Move ◉ Enter ⅢⅢ Return	

	TV	Picture
	Mode	: Dynamic
	Custom	
	Colour Tone	: Normal
	Colour Control	
	Film Mode	: Off
	Size	: On
	PIP	
	▼ More	
	◆ Move ◉ Enter ⅢⅢ Return	

1 Press the **MENU** (ⅢⅢ) button.

   <u>Result</u>:   The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.

   <u>Result</u>:   The options available in the **Picture** group are displayed.

3 Press the **ENTER** (◉) button.

4 Press the ▲ or ▼ button to select **Film Mode**.
   Press the **ENTER** (◉) button.

5 Press the ▲ or ▼ button to change the setting (**Off** or **On**).

   ◆ **On** : Automatically senses and processes film signals from some sources and adjusts the picture for optimum quality.
   ◆ **Off** : Switches off the **Film Mode**.

6 Press the **ENTER** (◉) button to confirm.

   ➢ ◆ Not available in the PC, Component (480P, 576P, 720P, 1080i) or DVI modes.

   ◆ Mode discrepancies, such as turning off Film Mode while viewing a film source or turning on Film Mode while viewing non-film sources, may affect the picture quality.

DNIe™ (Digital Natural Image engine) DNIe™
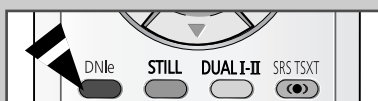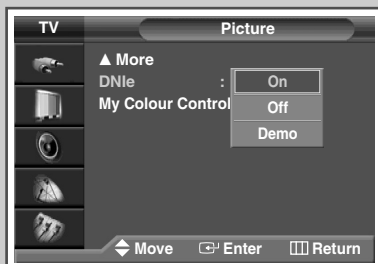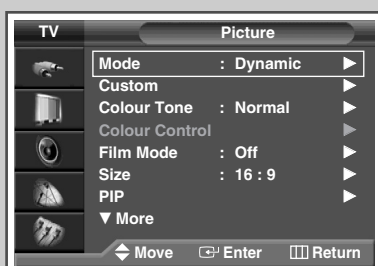
This feature brings you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, more detailed image to you. DNIe™ technology visibly enhances the picture.

	TV	Picture
	Mode	: Dynamic ▶
	Custom	▶
	Colour Tone	: Normal ▶
	Colour Control	▶
	Film Mode	: Off ▶
	Size	: 16 : 9 ▶
	PIP	▶
	▼ More	
	◆ Move ◉ Enter ⅢⅢ Return	

	TV	Picture
	▲ More	
	DNIe	: On
	My Colour Control	Off
		Demo
	◆ Move ◉ Enter ⅢⅢ Return	

DNIe STILL DUAL I-II SRS TSXT

English - 34

1 Press the **MENU** (ⅢⅢ) button.

   <u>Result</u>:   The main menu is displayed.

2 Press the ▲ or ▼ button until the **Picture** is selected.

   <u>Result</u>:   The options available in the **Picture** group are displayed.

3 Press the **ENTER** (◉) button.

4 Press the ▲ or ▼ button until the **DNIe** is selected.
   Press the **ENTER** (◉) button.

5 Press the ▲ or ▼ button to change the setting.
   ◆ **On**: Switches on the DNIe mode.
   ◆ **Off**: Switches off the DNIe mode.
   ◆ **Demo** (Option): The screen before applying DNIe appears on the right and the screen after applying DNIe appears on the left.

6 Press the **ENTER** (◉) button to confirm.

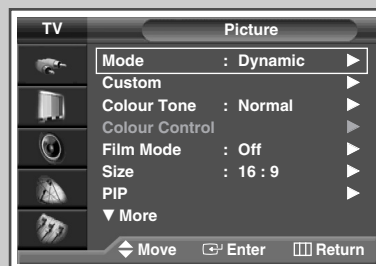   ➢ You can also set these options simply by pressing the **DNIe** button.

Setting the My Colour Control (Easy Control)

This feature allows you to adjust colours according to their preferences, by adjusting skin, sky, and grass tones using the predefined settings ("Blue", "Green", "Pink", "Standard", and "Custom") without affecting other colours on the screen.
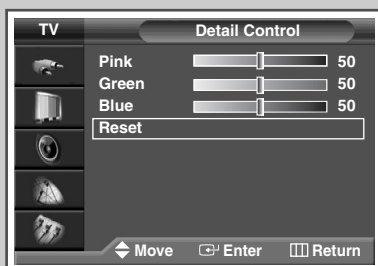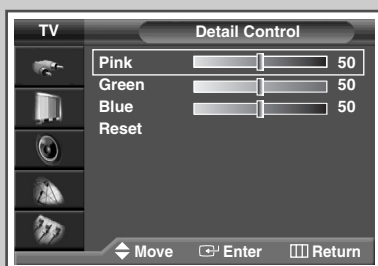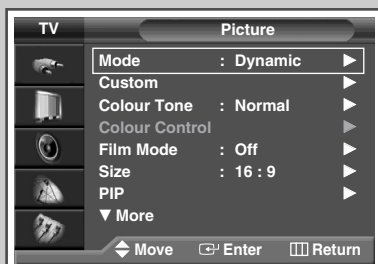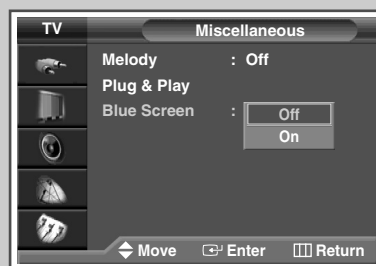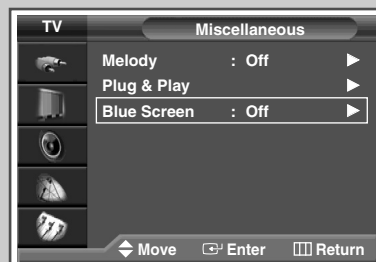
1   Press the **MENU** (▥) button.

   Result: The main menu is displayed.

2   Press the ▲ or ▼ button to select **Picture**.

   Result: The options available in the **Picture** group are displayed.

3   Press the **ENTER** (⏎) button.

4   Press the ▲ or ▼ button to select **My Colour Control**. Press the **ENTER** (⏎) button.

   Result: The options available are displayed with the **Easy Control** is selected.

5   Press the **ENTER** (⏎) button.

   Result :   The following modes are available:

   ◆   **Blue**
         Emphasizing Clear Blues.

   ◆   **Green**
         Emphasizing Mild Greens.

   ◆   **Pink**
         Emphasizing Warm Skin Colours.

   ◆   **Standard**
         Standard Picture.

   ◆   **Custom**
         Changing the settings in the **Detail Control** menu will automatically set to **Custom** (see next page).

6   Select the required mode by pressing the ◄ or ► button.

   Result :   The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

7   Press the **ENTER** (⏎) button to confirm.

➢   ◆   Depending on the input source, this feature may not operate.

   ◆   This feature is operated when the "**DNIe**" is set to "**On**" or "**Demo**" mode.

TV	Picture	
	Mode	: Dynamic ►
	Custom	►
	Colour Tone	: Normal ►
	Colour Control	►
	Film Mode	: Off ►
	Size	: 16 : 9 ►
	PIP	►
	▼ More	

◆ Move   ⏎ Enter   ▥ Return

TV	My Colour Control	
	Easy Control	: Custom ►
	Detail Control	►

◆ Move   ⏎ Enter   ▥ Return

Original   Blue

Easy Control

| Blue | Green | Pink ► |

◄► Move   ⏎ Enter   ▥ Return

Setting the My Colour Control (Detail Control)

This settings can be adjusted to suit your personal preferences.

TV — Picture

- Mode : Dynamic ▶
- Custom ▶
- Colour Tone : Normal ▶
- Colour Control ▶
- Film Mode : Off ▶
- Size : 16 : 9 ▶
- PIP ▶
- ▼ More

◆ Move   ↵ Enter   ▥ Return

TV — My Colour Control

- Easy Control : Custom ▶
- Detail Control ▶

◆ Move   ↵ Enter   ▥ Return

TV — Detail Control

- Pink   50
- Green   50
- Blue   50
- Reset

◆ Move   ↵ Enter   ▥ Return

Original   Adjusted

Detail Control

Pink   50

◆ Move   ◆▶ Adjust   ▥ Return

TV — Detail Control

- Pink   50
- Green   50
- Blue   50
- Reset

◆ Move   ↵ Enter   ▥ Return

---

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

---

2 Press the ▲ or ▼ button to select **Picture**.

Result: The options available in the **Picture** group are displayed.

---

3 Press the **ENTER** (↵) button.

---

4 Press the ▲ or ▼ button to select **My Colour Control**. Press the **ENTER** (↵) button.

---

5 Press the ▲ or ▼ button to select **Detail Control**. Press the **ENTER** (↵) button.

Result: The available options are displayed.

---

6 Select the required option (**Pink**, **Green**, or **Blue**) by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

---

7 Press the ◀ or ▶ button until you reach the required setting.

Result : Changing the adjustment value will refresh the adjusted screen.

---

8 Press the **MENU** (▥) button.

Result: The options available in the **Detail Control** group are displayed again.

---

9 To return the factory defaults, select **Reset** by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

Result: The previously adjusted colours will be reset to the factory defaults.

Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

1   Press the **MENU** (▭) button.

  Result: The main menu is displayed.

2   Press the ▲ or ▼ button to select **Setup**.

  Result: The options available in the **Setup** group are displayed.

3   Press the **ENTER** (⏎) button.

4   Press the ▲ or ▼ button to select **Miscellaneous**.
  Press the **ENTER** (⏎) button.

  Result: The options available in the **Miscellaneous** group are displayed.

5   Press the ▲ or ▼ button to select **Blue Screen**.
  Press the **ENTER** (⏎) button.

6   Press the ▲ or ▼ button to change the setting (**Off** or **On**).

7   Press the **ENTER** (⏎) button to confirm.

➢   ◆   **Blue Screen** is displayed while no signal from the external device in the External Mode, regardless of the Blue Screen Setting.

TV	Setup	
	Time	▶
	Language : English	▶
	AV Setup	▶
	Digital NR : On	▶
	Miscellaneous	▶
	PC Setup	▶
	Colour Weakness: Off	▶
	Screen Burn Protection	▶
	◆ Move ⏎ Enter ▭ Return	

TV	Miscellaneous	
	Melody : Off	▶
	Plug & Play	▶
	Blue Screen : Off	▶
	◆ Move ⏎ Enter ▭ Return	

TV	Miscellaneous	
	Melody : Off	
	Plug & Play	
	Blue Screen :	Off / On
	◆ Move ⏎ Enter ▭ Return	

Setting the Melody Sound

You can hear clear melody sound when the television is powered on or off.

1   Press the **MENU** (▭) button.
  Result: The main menu is displayed.

2   Press the ▲ or ▼ button to select **Setup**.
  Result: The options available in the **Setup** group are displayed.

3   Press the **ENTER** (⏎) button.

4   Press the ▲ or ▼ button to select **Miscellaneous**.
  Press the **ENTER** (⏎) button.

  Result: The options available in the **Miscellaneous** group are displayed.

5   Press the ▲ or ▼ button to select **Melody**.
  Press the **ENTER** (⏎) button.

6   Press the ▲ or ▼ button to change the setting (**Off** or **On**).

7   Press the **ENTER** (⏎) button to confirm.

TV	Miscellaneous	
	Melody : Off	▶
	Plug & Play	▶
	Blue Screen : Off	▶
	◆ Move ⏎ Enter ▭ Return	

TV	Miscellaneous	
	Melody :	Off / On
	Plug & Play	
	Blue Screen : Off	
	◆ Move ⏎ Enter ▭ Return	
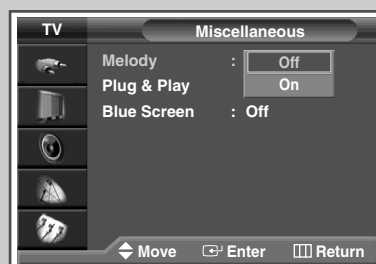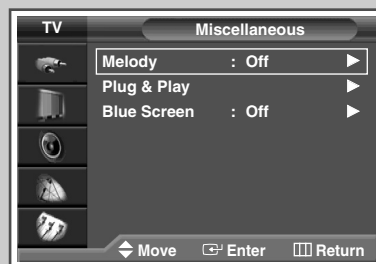
Using the Colour Weakness Enhancement Feature

TV	Setup
☞	Time ▶
▥	Language : English ▶
	AV Setup ▶
◉	Digital NR : On ▶
	Miscellaneous ▶
▧	PC Setup ▶
	Colour Weakness: Off ▶
☷	Screen Burn Protection ▶
	◆ Move ↩ Enter ⊞ Return

TV	Colour Weakness
☞	Colour Weakness : Off ▶
▥	Red ▯▭▭ 0
	Green ▯▭▭ 0
◉	Blue ▯▭▭ 0
▧	
☷	
	◆ Move ↩ Enter ⊞ Return

TV	Colour Weakness
☞	Colour Weakness : On ▶
▥	Red ▯▭▭▭ 0
	Green ▯▭▭▭ 0
◉	Blue ▯▭▭▭ 0
▧	
☷	
	◆ Move ↩ Enter ⊞ Return

Colour Weakness	
▲ Red ▯▭▭▭▭▭ 0 ▼	
◆ Move ◀▶ Adjust ⊞ Return	

This feature adjusts the Red, Green, or Blue colour to enhance the picture according to the user's particular colour weakness.
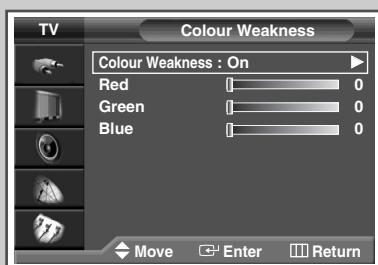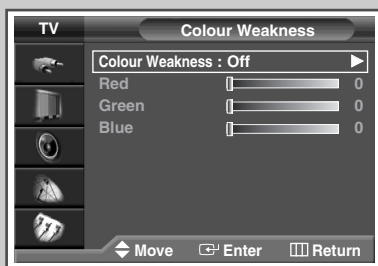
---

1   Press the **MENU** (▥) button.

Result: The main menu is displayed.

---

2   Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

---

3   Press the **ENTER** (↩) button.

---

4   Press the ▲ or ▼ button to select **Colour Weakness**.
Press the **ENTER** (↩) button.

Result: The options available in the **Colour Weakness** group are displayed.

---

5   Press the **ENTER** (↩) button again.
Press the ▲ or ▼ button to select **On**, then press the **ENTER** (↩) button.

---

6   Press the ▲ or ▼ button to select the colour you wish to adjust, then press the **ENTER** (↩) button.

---

7   Press the ◀ or ▶ button to adjust to your preference.

---

8   Press the **MENU** (▥) or **ENTER** (↩) button to confirm.

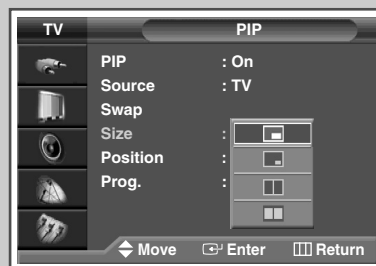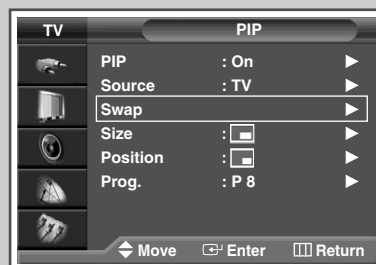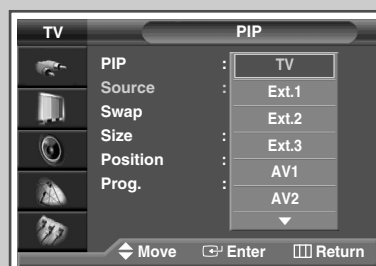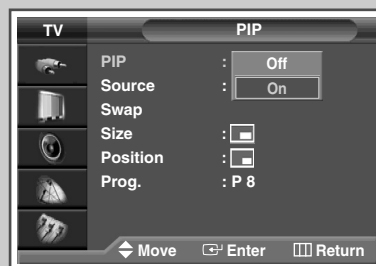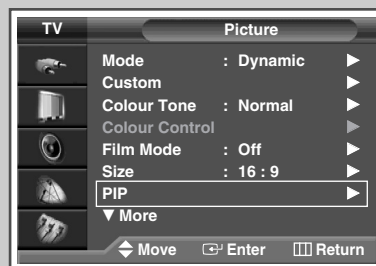# Viewing the Picture In Picture (PIP)

You can display a sub picture within the main picture of TV programme or external A/V devices. In this way you can watch TV programme or monitor the video input from any connected devices while watching TV or other video input.

1 Press the **MENU** (▯▯▯) button.
Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Picture**.
Result: The options available in the **Picture** group are displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **PIP**.
Press the **ENTER** (⏎) button.
Result: The options available in the **PIP** group are displayed.

5 Press the **ENTER** (⏎) button again.
To activate, set the **PIP** to **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (⏎) button.

6 Press the ▲ or ▼ button to select **Source**.
Press the **ENTER** (⏎) button.
Result: The sources are displayed in the following order:

    TV - Ext.1 - Ext.2 - Ext.3 - AV1 - AV2 - S-Video - Component1 - Component2 - PC - DVI

    ➢ ◆ The **PC** can not be selected in DVI mode.
        ◆ The **DVI** can not be selected in PC mode.

7 Select a source of the sub picture by pressing the ▲ or ▼ button.
Press the **ENTER** (⏎) button.

8 Press the ▲ or ▼ button to select **Swap**.
Press the **ENTER** (⏎) button.
Result: The main picture and sub picture are interchanged.

9 Press the ▲ or ▼ button to select **Size**.
Press the **ENTER** (⏎) button.
Result: The sizes are displayed in the following order:
    ▪ ▫ ▯▯ ▪▪
    (Large) ─ (Small) ─ (Double1) ─ (Double2)

    ➢ ◆ The Double1 or Double2 mode can not be selected in **PC** or **DVI** mode.

10 Select a size of the sub picture by pressing the ▲ or ▼ button.
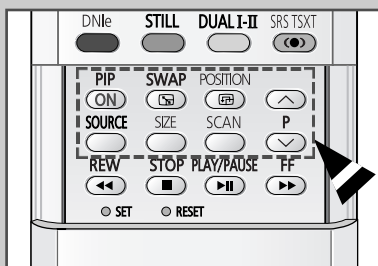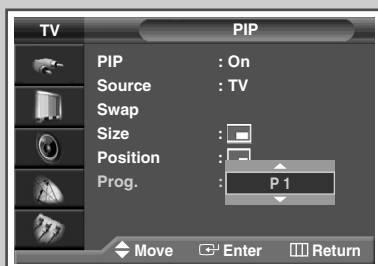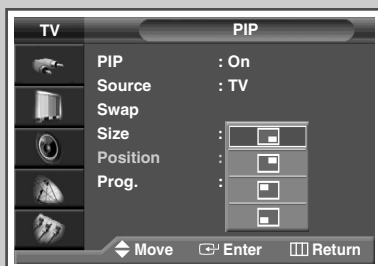Press the **ENTER** (⏎) button.

Table of PIP Settings

X - This PIP combination is not available.
O - This PIP combination is available.

PIP \ Main	TV	Ext.1	Ext.2	Ext.3	AV1	AV2	S-Video	Component1	Component2	PC	DVI
TV	O	O	O	O	O	O	O	O	O	O	O
Ext.1	O	X	O	O	O	O	O	O	O	O	O
Ext.2	O	O	X	O	O	O	O	O	O	O	O
Ext.3	O	O	O	X	O	O	O	O	O	O	O
AV1	O	O	O	O	X	O	O	O	O	O	O
AV2	O	O	O	O	O	X	O	O	O	O	O
S-Video	O	O	O	O	O	O	X	O	O	O	O
Component1	O	O	O	O	O	O	O	X	X	X	X
Component2	O	O	O	O	O	O	O	X	X	X	X
PC	O	O	O	O	O	O	O	X	X	X	X
DVI	O	O	O	O	O	O	O	X	X	X	X

TV   **PIP**

PIP : On
Source : TV
Swap
Size :
Position :
Prog. :

◆ **Move**   ↵ **Enter**   ▥ **Return**

TV   **PIP**

PIP : On
Source : TV
Swap
Size :
Position :
Prog. :   P 1

◆ **Move**   ↵ **Enter**   ▥ **Return**

11   Press the ▲ or ▼ button to select **Position**.
Press the **ENTER** (↵) button.

> Result: The positions available are displayed.
>
> ▪ — ▪ — ▪ — ▪

12   Select a position by pressing the ▲ or ▼ button.
Press the **ENTER** (↵) button.

13   Press the ▲ or ▼ button to select **Prog.**.
Press the **ENTER** (↵) button.

14   Select the channel that you want to view through sub picture
by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

➢   If the sub picture is no signal and the main picture is
output from a Component, PC or DVI signal, the sub
picture will be blue. If the main picture is output from
a Video signal, the sub picture will be blue.

Easy functions of remote control.

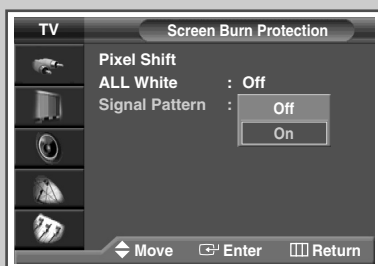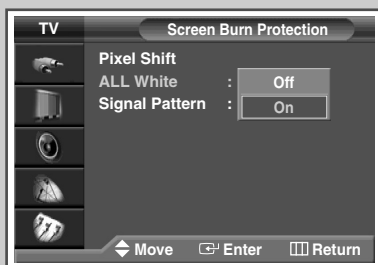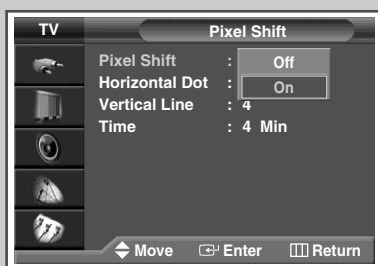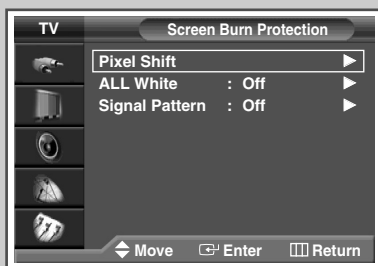| Buttons	Feature
PIP ON	Used to activate or deactivate the PIP function directly.
SWAP	Used to interchange the main picture and the sub picture.
	➢ When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the **SWAP** ( ) button after changing the sub picture channel. At this time, reselect the channel of main picture.
POSITION	Used to move the sub picture counterclockwise.
SOURCE	Used to assign a source of sub picture (**TV**, **Ext.1**, **Ext.2**, **Ext.3**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, **DVI**).
SIZE	Used to select a size of sub picture (Large, Small, Double1, Double2).
SCAN	Used to scan every memorized channel in order. To stop scanning, press it again.
P∧/∨	Used to select the channel of sub picture.

Using the Digital NR (Noise Reduction) Feature

*If the signal received by your television is weak, you can activate
this feature to help reduce any static and ghosting that may appear
on the screen.*

TV	Setup	
	Time	►
	Language : English	►
	AV Setup	►
	Digital NR : On	►
	Miscellaneous	►
	PC Setup	►
	Colour Weakness: Off	►
	Screen Burn Protection	►
	◆ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button.

    <u>Result</u>: The main menu is displayed.

2 Press the ▲ or ▼ button until the **Setup** is selected.

    <u>Result</u>: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button until the **Digital NR** is selected.
Press the **ENTER** (⏎) button.

5 Select **Off** or **On** by pressing the ▲ or ▼ button.
Press the **ENTER** (⏎) button to confirm.

TV	Setup	
	Time	
	Language : English	
	AV Setup	
	Digital NR : Off	
	Miscellaneous On	
	PC Setup	
	Colour Weakness: Off	
	Screen Burn Protection	
	◆ Move ⏎ Enter ▥ Return	

Preventing Screen Burn-in

You can prevent image burn-in on the PDP screen.

TV — **Setup**
- Time ▶
- Language : English ▶
- AV Setup ▶
- Digital NR : On ▶
- Miscellaneous ▶
- PC Setup ▶
- Colour Weakness: Off ▶
- **Screen Burn Protection** ▶

◆ Move   ↵ Enter   ▥ Return

TV — **Screen Burn Protection**
- **Pixel Shift** ▶
- ALL White : Off ▶
- Signal Pattern : Off ▶

◆ Move   ↵ Enter   ▥ Return

TV — **Pixel Shift**
- Pixel Shift :   Off / On
- Horizontal Dot :
- Vertical Line : 4
- Time : 4 Min

◆ Move   ↵ Enter   ▥ Return

TV — **Screen Burn Protection**
- Pixel Shift
- ALL White :   Off / On
- Signal Pattern :

◆ Move   ↵ Enter   ▥ Return

TV — **Screen Burn Protection**
- Pixel Shift
- ALL White : Off
- Signal Pattern :   Off / On

◆ Move   ↵ Enter   ▥ Return

1	Press the **MENU** (▥) button.
	Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select **Setup**.
	Result: The options available in the **Setup** group are displayed.
3	Press the **ENTER** (↵) button.
4	Press the ▲ or ▼ button to select **Screen Burn Protection**.
5	Press the **ENTER** (↵) button.
	Result: The **Screen Burn Protection** menu is displayed with the **Pixel Shift** selected.
6	Press the **ENTER** (↵) button again.
	Result: The **Pixel Shift** menu is displayed with the **Pixel Shift** selected.
7	Press the **ENTER** (↵) button. Set to **On** by pressing the ▲ or ▼ button for making the screen move per regular hour and preventing the residual image, then press the **ENTER** (↵) button.
8	Select the option (**Horizontal Dot**, **Vertical Line**, or **Time**) to be adjusted by pressing the ▲ or ▼ button. Press the **ENTER** (↵) button.

➢ Optimum condition for pixel shift;

Horizontal Dot	2
Vertical Line	4
Time	4 Min

9	Press the ▲ or ▼ button to reach the required setting. Press the **ENTER** (↵) button.
10	When you are satisfied with the settings, press the **MENU** (▥) button. Press the **ENTER** (↵) button.
11	Press the ▲ or ▼ button to select **ALL White**. Press the **ENTER** (↵) button. Set to **On** by pressing the ▲ or ▼ button for removing the residual image after making the screen white. Press the **ENTER** (↵) button.
12	Press the ▲ or ▼ button to select **Signal Pattern**. Press the **ENTER** (↵) button. Set to **On** by pressing the ▲ or ▼ button for removing the residual image. Press the **ENTER** (↵) button.

➢ The **Signal Pattern** and **ALL White** feature are effective after working for a long time.

Changing the Sound Standard

You can select the type of special sound effect to be used when watching a given broadcast.

1	Press the **MENU** (▥) button.	
	Result:	The main menu is displayed.
2	Press the ▲ or ▼ button to select **Sound**.	
	Result:	The options available in the **Sound** group are displayed.
3	Press the **ENTER** (↵) button.	
	Result:	The **Mode** is selected.
4	Press the **ENTER** (↵) button again.	
5	Select the option by pressing the ▲ or ▼ button. The sound effects are displayed in the following order. **Standard – Music – Movie – Speech – Custom**.	
6	Press the **ENTER** (↵) button to confirm.	

➢ You can also set these options simply by pressing the **S.MODE** (⊣♪⊦: Sound Mode) button.
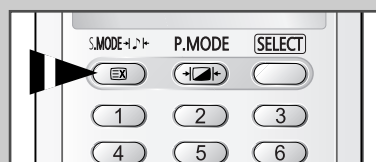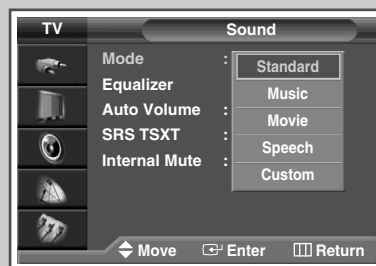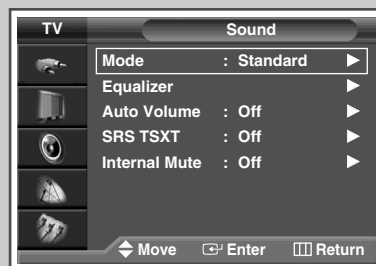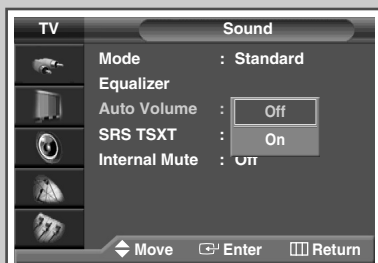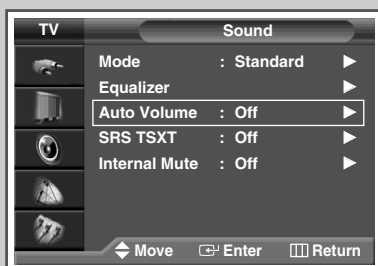
Adjusting the Sound Settings
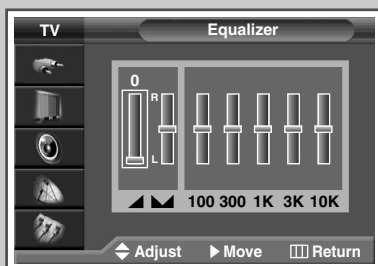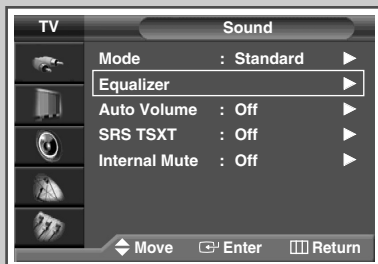
The sound settings can be adjusted to suit your personal preferences.

TV	**Sound**
☞	Mode　　　　: Standard　▶
🗔	**Equalizer**　　　　　　　▶
🎧	Auto Volume : Off　　▶
🔊	SRS TSXT　 : Off　　▶
🎚	Internal Mute : Off　　▶
🗔	
	◆ Move　　↵ Enter　▥ Return

1　Press the **MENU** (▢) button.

　　Result:　The main menu is displayed.

2　Press the ▲ or ▼ button to select **Sound**.

　　Result:　The options available in the **Sound** group are displayed.

3　Press the **ENTER** (↵) button.

4　Press the ▲ or ▼ button to select **Equalizer**.
　　Press the **ENTER** (↵) button.

　　Result:　The **Equalizer** menu is displayed with the current option.

TV	**Equalizer**
☞	
🗔	0
🎧	R
🔊	L
🎚	◢◣ 100 300 1K 3K 10K
	◆ Adjust　　▶ Move　▥ Return

5　Select the option (volume, balance, equalizer) to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.

6　When you are satisfied with the settings, press the **MENU** (▢) button to store them.

➢　If you make any changes to the equalizer settings, the sound standard is automatically switched to the **Custom**.

Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

TV	**Sound**
☞	Mode　　　　: Standard　▶
🗔	Equalizer　　　　　　　▶
	Auto Volume : Off　　▶
🔊	SRS TSXT　 : Off　　▶
🎚	Internal Mute : Off　　▶
🗔	
	◆ Move　　↵ Enter　▥ Return

1　Press the **MENU** (▢) button.

　　Result:　The main menu is displayed.

2　Press the ▲ or ▼ button to select **Sound**.

　　Result:　The options available in the **Sound** group are displayed.

3　Press the **ENTER** (↵) button.

4　Press the ▲ or ▼ button to select **Auto Volume**.
　　Press the **ENTER** (↵) button.

TV	**Sound**
☞	Mode　　　　: Standard
🗔	Equalizer
	Auto Volume :　Off
🔊	SRS TSXT　 :　On
🎚	Internal Mute : Off
🗔	
	◆ Move　　↵ Enter　▥ Return

5　Select the option (**Off** or **On**) by pressing the ▲ or ▼ button.

6　Press the **ENTER** (↵) button to confirm.

Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1 Press the **MENU** (▭▭) button.

   <u>Result:</u>   The main menu is displayed.

2 Press the ▲ or ▼ button until the **Sound** is selected.

   <u>Result:</u>   The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button until the **SRS TSXT** is selected.
   Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting (**Off**, **3D Mono** or **Stereo**).

6 Press the **ENTER** (↵) button to confirm.

> ➤ TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

SRS(●)
TruSurround XT

> ➤ You can also set these options simply by pressing the **SRS TSXT** ((●)) button.
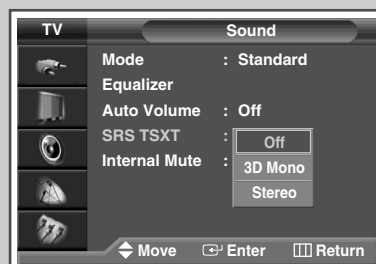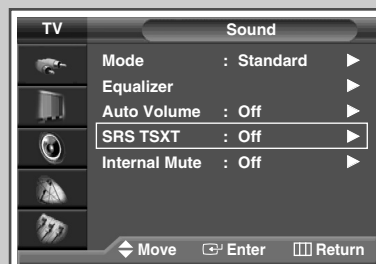
Selecting the Internal Mute

If you want to hear the sound through separate speakers, cancel the internal amplifier.

1 Press the **MENU** (▭▭) button.

   <u>Result:</u>   The main menu is displayed.

2 Press the ▲ or ▼ button to select **Sound**.

   <u>Result:</u>   The options available in the **Sound** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Internal Mute**.
   Press the **ENTER** (↵) button.

5 Press the ▲ or ▼ button to change the setting (**Off** or **On**).

6 Press the **ENTER** (↵) button to confirm.
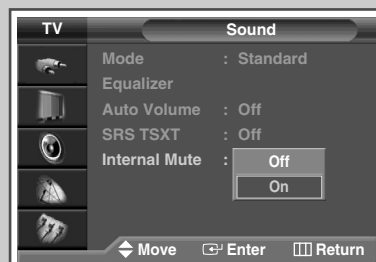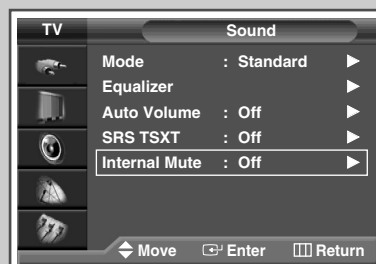
# Selecting the Sound Mode (depending on the model)
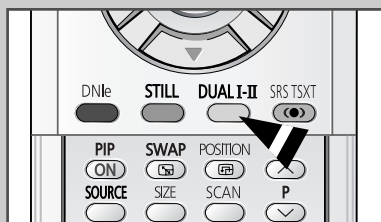
The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I " or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
NICAM Stereo	Regular broadcast (Standard audio)	**Mono** (Normal use)
	Regular + NICAM Mono	**NICAM Mono ←→ Mono**
	NICAM Stereo	**NICAM Stereo ←→ Mono** (Forced mono)
	NICAM DUAL-I/II	**NICAM DUAL-I →** **NICAM DUAL-II →** **Mono**
A2 Stereo	Regular broadcast (Standard audio)	**Mono**
	Bilingual or DUAL-I/II	**DUAL-I ←→ DUAL-II**
	Stereo	**Stereo ←→ Mono** (Forced mono)

➢ ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to the **Mono**.

◆ If the stereo signal is weak and an automatic switching occurs, then switch to the **Mono**.

◆ When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the side of the television. If the mono sound comes out only from left speaker, press the **DUAL I-II** button.

Setting the Sleep Timer

You can select a time period of between 30 and 180 minutes after which the television automatically switches to Standby mode.

1 Press the **MENU** (▱) button.

  <u>Result</u>: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

  <u>Result</u>: The options available in the **Setup** group are displayed.

3 Press the **ENTER** (↵) button.

4 Press the ▲ or ▼ button to select **Time**.
  Press the **ENTER** (↵) button.

  <u>Result</u>: The options available in the **Time** group are displayed.

5 Press the ▲ or ▼ button to select **Sleep Timer**.
  Press the **ENTER** (↵) button.

  <u>Result</u>: The **Sleep Timer** menu is displayed with the **Min** is selected.

6 Select the preset time intervals (**Off**, **30**, **60**, **90**, **120**, **150**, **180**) by pressing the ▲ or ▼ button.

7 Press the ◄ or ► button to move to the **Activation**.

8 When you are satisfied with the settings, select **Activation** to **Yes** or **No** by pressing the ▲ or ▼ button.

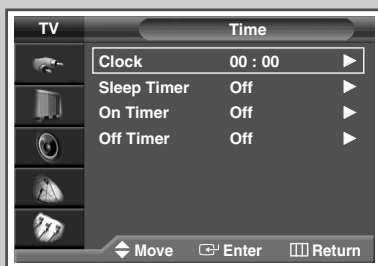**9** Press the **ENTER** (↵) button to confirm your selection.

➢ ◆ You can also set these options simply by pressing the **SLEEP** button.

  ◆ If the sleep timer is not yet set, **Off** is displayed.
    If the sleep timer is already set, the remaining time before which the television switches to Standby mode is displayed.

TV	Setup	
	Time	►
	Language : English	►
	AV Setup	►
	Digital NR : On	►
	Miscellaneous	►
	PC Setup	►
	Colour Weakness: Off	►
	Screen Burn Protection	►
	◆ Move ↵ Enter ▱ Return	

TV	Time	
	Clock 00 : 00	►
	Sleep Timer Off	►
	On Timer Off	►
	Off Timer Off	►
	◆ Move ↵ Enter ▱ Return	

TV	Sleep Timer
	Min Activation
	-- No
	◆ Adjust ► Move ▱ Return

TV	Sleep Timer
	Min Activation
	30 Yes
	◆ Adjust ◄► Move ▱ Return

Off

Setting and Displaying the Current Time

You can set the television's clock so that the current time is displayed by pressing the "INFO (⊡)" button. You must also set the time if you wish to use the automatic on or off timers.

> ➢ When pressing the "I / ⏻ " button (On/Off) on the front of the television, the clock setting will be reset.

TV	Setup	
☞	Time	►
▯	Language : English	►
	AV Setup	►
◉	Digital NR : On	►
	Miscellaneous	►
◿	PC Setup	
	Colour Weakness: Off	►
⚡	Screen Burn Protection	►
	◆ Move ⏎ Enter ▥ Return	

1 Press the **MENU** (▥) button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

TV	Time	
☞	Clock 00 : 00	►
▯	Sleep Timer Off	►
	On Timer Off	►
◉	Off Timer Off	►
◿		
⚡		
	◆ Move ⏎ Enter ▥ Return	

3 Press the **ENTER** (⏎) button.

4 Press the ▲ or ▼ button to select **Time**.
Press the **ENTER** (⏎) button.

Result: The options available in the **Time** group are displayed with **Clock** is selected.

5 Press the **ENTER** (⏎) button.

TV	Clock	
☞		
▯		
◉	Hour Min	
◿	▲	
	01 00	
⚡	▼	
	◆ Adjust ► Move ▥ Return	

6 Press the ◄ or ► button to move to the hour or minute.
Set the hour or minute by pressing the ▲ or ▼ button.

7 When you have finished, press the **MENU** (▥) button to exit.

8 Press the **INFO** (⊡) button to display the current time.

Switching the Television On and Off Automatically

You can set the television's clock and set the On or Off timers so that the television will:

- ◆ *Switch on automatically and tune to the channel of your choice at the time you select*
- ◆ *Switch off automatically at the time you select*

➢ The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page).
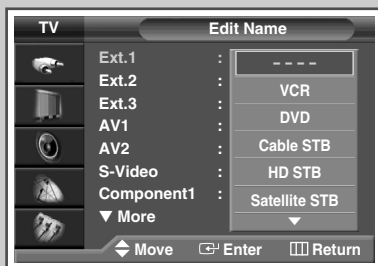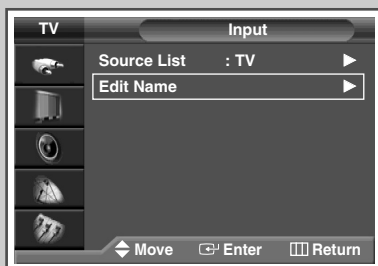
1	Press the **MENU** (▥) button.	
	Result:	The main menu is displayed.

2	Press the ▲ or ▼ button to select **Setup**.	
	Result:	The options available in the **Setup** group are displayed.

3	Press the **ENTER** (⏎) button.	

4	Press the ▲ or ▼ button to select **Time**. Press the **ENTER** (⏎) button.	
	Result:	The options available in the **Time** group are displayed.

5	Press the ▲ or ▼ button to select **On Timer**. Press the **ENTER** (⏎) button.	
	Result:	The options available in the **On Timer** group are displayed.

6 Select the **Hour**, **Min**, **Prog.**, **Volume** by pressing the ◄ or ► button. Set these by pressing the ▲ or ▼ button.

7 Press the ◄ or ► button to move to the **Activation**.

8 When you are satisfied with the settings, select **Activation** to **Yes** or **No** by pressing the ▲ or ▼ button.

9	Press the **MENU** (▥) button.	
	Result:	The options available in the **Time** group are displayed again.

10	Press the ▲ or ▼ button to select **Off Timer**. Press the **ENTER** (⏎) button.	
	Result:	The **Off Timer** menu is displayed.

11 Select the **Hour**, **Min** or **Activation** by pressing the ◄ or ► button. Set these by pressing the ▲ or ▼ button.

12 Press the **ENTER** (⏎) button to confirm.

➢ **Auto Power Off**

Auto Power OFF will automatically turn the TV off if you do not operate any controls within 3 hours after the TV is turned on by the timer. This function is available in the timer "On" mode only and will prevent a leakage accident or overheating caused by your TV being left on too long.

➢ If no signal is received for 15 minutes, the TV will be automatically turned off.

TV — Setup
- Time ►
- Language : English ►
- AV Setup ►
- Digital NR : On ►
- Miscellaneous ►
- PC Setup ►
- Colour Weakness: Off ►
- Screen Burn Protection ►

◆ Move ⏎ Enter ▥ Return

TV — Time
- Clock 00 : 00 ►
- Sleep Timer Off ►
- On Timer Off ►
- Off Timer Off ►

◆ Move ⏎ Enter ▥ Return

TV — On Timer

Hour	Min	Prog.
00	00	1

Volume	Activation
10	No

◆ Adjust ► Move ▥ Return

TV — Off Timer

Hour	Min
00	00

Activation
No

◆ Adjust ► Move ▥ Return

Viewing an External Signal Source

Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top Boxs and the TV source (broadcast or cable).
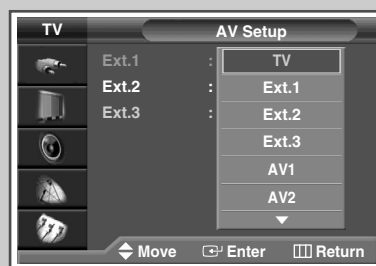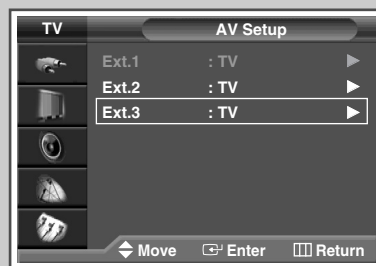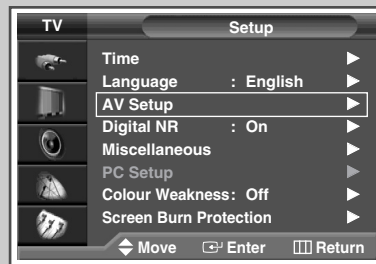
TV — Input
Source List : TV ▶
Edit Name ▶
♦ Move ⏎ Enter ▯▯ Return

TV — Source List
TV
Ext.1 — - - -
Ext.2 — - - -
Ext.3 — - - -
AV1 — - - -
AV2 — - - -
S-Video — - - -
▼ More
♦ Move ⏎ Enter ▯▯ Return

TV — Input
Source List : TV ▶
Edit Name ▶
♦ Move ⏎ Enter ▯▯ Return

TV — Edit Name
Ext.1 : — - - -
Ext.2 : VCR
Ext.3 : DVD
AV1 : Cable STB
AV2 : HD STB
S-Video : Satellite STB
Component1 : ▼
▼ More
♦ Move ⏎ Enter ▯▯ Return

| 1 | Press the **MENU** (▯▯▯) button. |
| | Result: The main menu is displayed. |

| 2 | Press the ▲ or ▼ button to select **Input**. |
| | Result: The options available in the **Input** group are displayed. |

| 3 | Press the **ENTER** (⏎) button. |

| 4 | Press the ▲ or ▼ button to select **Source List**. Press the **ENTER** (⏎) button. |
| | Result: The options available in the **Source List** group are displayed. |

| 5 | Press the ▲ or ▼ button to select signal source, then press the **ENTER** (⏎) button. |
| ➤ | When you connect equipment to the TV, you can choose between the following sets of jacks : **Ext.1**, **Ext.2**, **Ext.3**, **AV1**, **AV2**, **S-Video**, **Component1**, **Component2**, **PC**, or **DVI** on the TV's rear panel. |

| 6 | Press the **MENU** (▯▯▯) button and select **Input**. |

| 7 | Press the ▲ or ▼ button to select **Edit Name**. Press the **ENTER** (⏎) button. |
| | Result: The options available in the **Edit Name** group are displayed. |

| 8 | Press the ▲ or ▼ button to select external device : **Ext.1 – Ext.2 – Ext.3 – AV1 – AV2 – S-Video – Component1 – Component2 – PC – DVI** |

| 9 | Press the **ENTER** (⏎) button. |
| | Result: The **Edit Name** available are listed. |

| 10 | Select the name by pressing the ▲ or ▼ button. Press the **ENTER** (⏎) button. |

| 11 | Set other signal sources (**VCR**, **DVD**, **Cable STB**, **HD STB**, **Satellite STB**, **AV Receiver**, **DVD Receiver**, **Game**, **Camcorder**, **DVD Combo**, **DHR** or **PC**) using the same method as listed above. |

➤ You can also set these options simply by pressing the **SOURCE** (⊟) button. If you change the external source while viewing, pictures might take a short period of time to be switched.
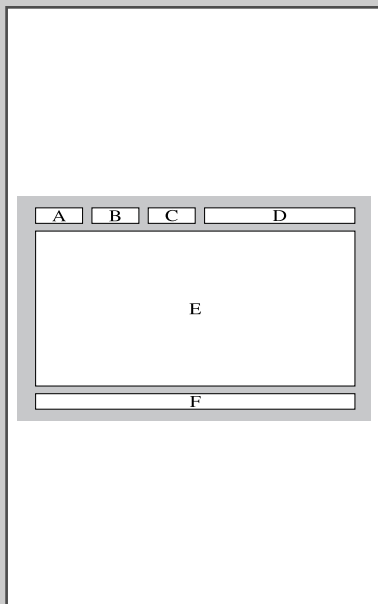
➤ **DHR** : **D**VD **H**DD **R**ecorder.

Redirecting an Input to the External Output

Your television enables you to choose which audio/video signals are output to the external connector.

1   Press the **MENU** (▯▯▯) button.

    <u>Result</u>:   The main menu is displayed.

2   Press the ▲ or ▼ button to select **Setup**.

    <u>Result</u>:   The options available in the **Setup** group are displayed.

3   Press the **ENTER** (⏎) button.

4   Press the ▲ or ▼ button to select **AV Setup**.
    Press the **ENTER** (⏎) button.

    <u>Result</u>:   The **AV Setup** menu is displayed.

5   Press the ▲ or ▼ button to select required input (**Ext.2** or **Ext.3**).
    Select the source to be directed to the output by pressing the ▲ or ▼ button.

6   Press the **ENTER** (⏎) button to confirm the change.

TV	Setup	
	Time	►
	Language : English	►
	AV Setup	►
	Digital NR : On	►
	Miscellaneous	►
	PC Setup	►
	Colour Weakness: Off	►
	Screen Burn Protection	►
	◆ Move ⏎ Enter ▯▯▯ Return	

TV	AV Setup	
	Ext.1 : TV	►
	Ext.2 : TV	►
	Ext.3 : TV	►
	◆ Move ⏎ Enter ▯▯▯ Return	

TV	AV Setup	
	Ext.1 :	TV
	Ext.2 :	Ext.1
	Ext.3 :	Ext.2
		Ext.3
		AV1
		AV2
		▼
	◆ Move ⏎ Enter ▯▯▯ Return	

Teletext Feature

Most television channels provide written information services via teletext. Information provided includes:

- ◆ *Television programme times*
- ◆ *News bulletins and weather forecasts*
- ◆ *Sports results*
- ◆ *Travel information*

*This information is divided into numbered pages (see diagram).*

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indications.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

➢ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- ◆ Entering the page number
- ◆ Selecting a title in a list
- ◆ Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information

You can display Teletext information at any time on your television

☛ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:
   ◆ Information may be missing
   ◆ Some pages may not be displayed

1 Select the channel providing the Teletext service by pressing the **P** ⌃ or ⌄ button.

2 Press the **TTX/MIX** (▤|▨) button to activate the teletext mode.

   Result: The contents page is displayed. It can be redisplayed at any time by pressing the ▤ⅈ (index) button.

3 Press the **TTX/MIX** (▤|▨) button again.

   Result: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.

4 If you wish to display the actual broadcast and teletext information on a single screen, press the **TTX/MIX** (▤|▨) button again.

**5** To exit from the teletext display, press the **EXIT/TV** (→▯) button.
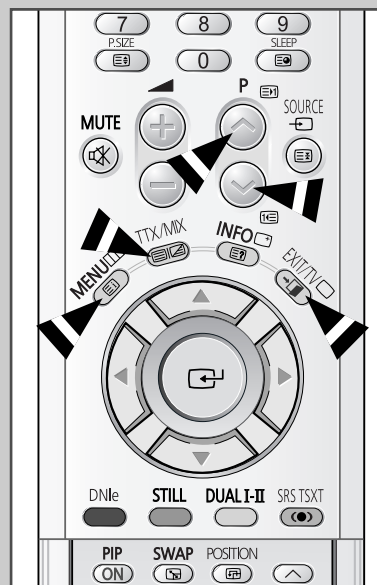
Selecting Display Options

When you have displayed a Teletext page, you can select various options to suit your requirements.

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	▤? (reveal)
◆ The normal screen	▤? (reveal) again
◆ A secondary page by entering its number	▤● (sub-page)
◆ The broadcast when searching for a page	▤✗ (cancel)
◆ The next page	▤▸ (page up)
◆ The previous page	◂▤ (page down)
◆ Double-size letters in the: • Upper half of the screen • Lower half of the screen	▤⬍ (size) • Once • Twice
◆ The normal screen	• Three times
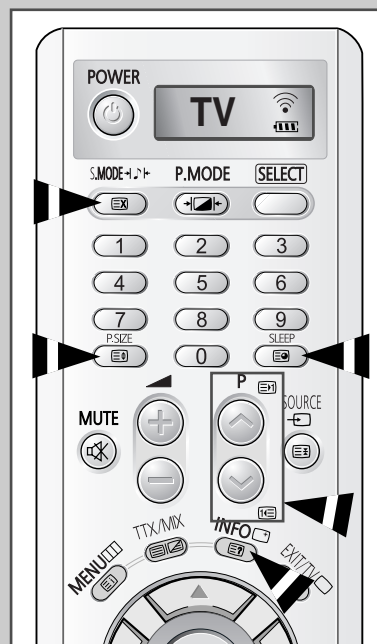
Selecting a Teletext Page
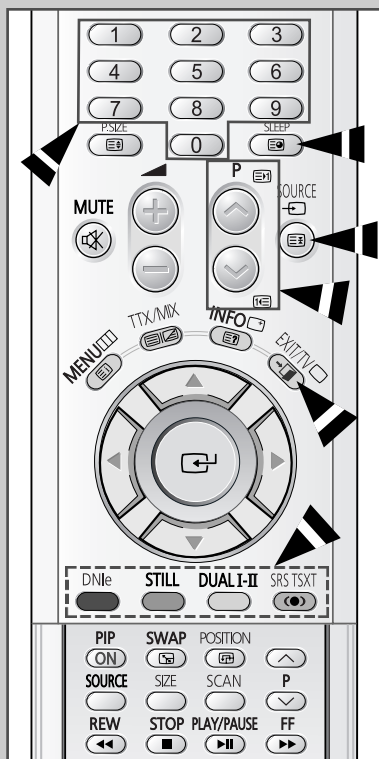
You can enter the page number directly by pressing the numeric buttons on the remote control.
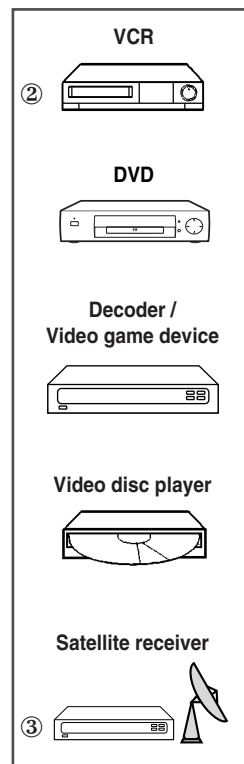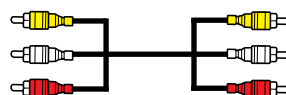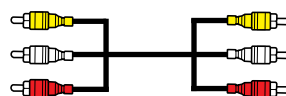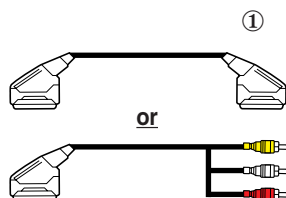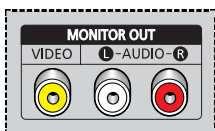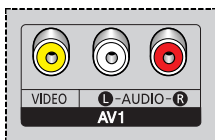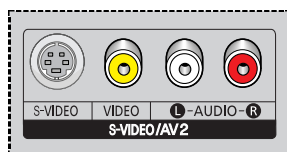
1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

   Result: The current page counter is incremented and the page is then displayed. If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the ▤ (hold). Press it again to resume.

2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.
Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

   Result: The page is displayed with other coloured information that can be selected in the same way.

3 To display the previous or next page, press the corresponding coloured button.

4 To display the subpage, see the following steps.

   ◆ Press the ▤ (sub-page) button.
   Result: The available subpages appear.

   ◆ Select the required sub-page. Sub-pages can be scrolled by pressing the ▤ or ▤ button.

5 When you have finished, press the **EXIT/TV** (→◼) button to return to your normal broadcast.

Connecting to the External Devices

"MONITOR OUT" are used for the equipment with an RGB output, such as video game devices or video disc players.

Rear of the TV
(Input/Output)

EXT.3 VIDEO/RGB	EXT.2 VIDEO/Y,C	EXT.1 VIDEO/Y,C/RGB

S-VIDEO VIDEO **L**–AUDIO–**R**
S-VIDEO/AV2

VIDEO **L**–AUDIO–**R**
AV1

MONITOR OUT
VIDEO **L**–AUDIO–**R**

or

① VCR

② DVD

Decoder / Video game device

Video disc player

③ Satellite receiver
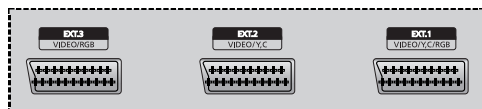
① This end can be fitted with:
  ◆ A SCART connector
  ◆ Three RCA connectors (VIDEO + AUDIO-L/R)

② If you have a second VCR and wish to copy cassettes tape, connect the source VCR to "**EXT.1(EXT.2, EXT.3, AV1 or AV2)**" and the target VCR to "**MONITOR OUT**" so that you can redirect the signal from "**EXT.1(EXT.2, EXT.3, AV1 or AV2)**" to "**MONITOR OUT**".

③ When you wish to record a programme, connect the receiver to "**EXT.1(EXT.2, EXT.3, AV1 or AV2)**" and the VCR to "**MONITOR OUT**" so that you can redirect the signal from "**EXT.1(EXT.2, EXT.3, AV1 or AV2)**" to "**MONITOR OUT**".

Input/Output Specification

Connector	Input				Output
	Video	Audio (L/R)	S-Video	RGB	Video + Audio (L/R)
EXT.1	✔	✔	✔	✔	Only TV output is available.
EXT.2	✔	✔	✔		Output you can choose.
EXT.3	✔	✔		✔	Output you can choose.

Connecting to the S-Video Input

The S-VIDEO and RCA (AUDIO-L/R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

Rear of the TV

Camcorder

and

VCR

S-VIDEO | VIDEO | ● –AUDIO– ®
S-VIDEO/AV 2

①
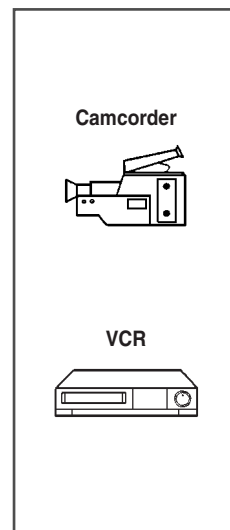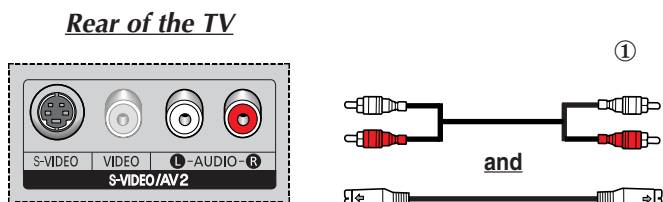
① To play picture and sound, both the S-VIDEO and RCA connectors must be used.

☛ Whenever you connect an audio or video system to your television, ensure that <u>all</u> elements are switched <u>off</u>. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Connecting to the DVI Input

The **"DVI-D"** (video) **and "L-AUDIO-R" connectors are used for equipment with a DVI output.**

Rear of the TV

DVI INPUT

DVI-D   L-AUDIO-R
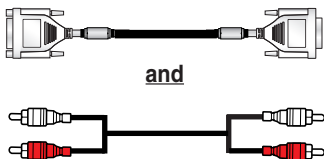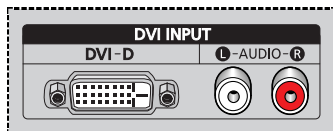
and

Personal Computer

Connecting to the PC Input

The **"RGB"** (video) **and "AUDIO" connectors are used for interfacing with your PC.**

Rear of the TV

Personal Computer

RGB   AUDIO

PC INPUT

and

Connecting to the Component Input

Rear of the TV

Y Pb Pr L-AUDIO-R   Y Pb Pr L-AUDIO-R
COMPONENT 2(480i/480P/576i/576P/720P/1080i)   COMPONENT 1 (480i/480P/576i/576P/720P/1080i)
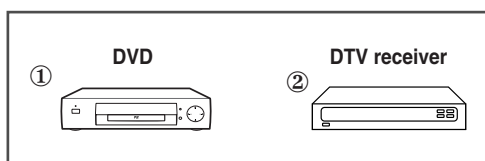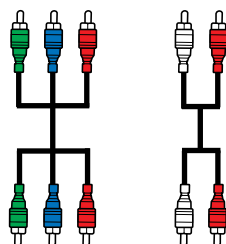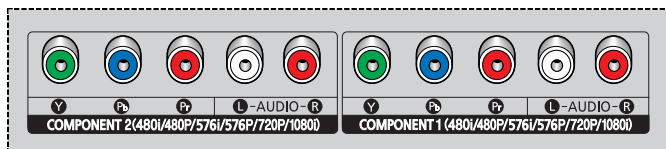
DVD   DTV receiver

① The "**COMPONENT 1**" connectors are used for equipment with a DVD output. (480i/480P/576i/576P/720P/1080i)

② The "**COMPONENT 2**" connectors are used for DTV receiver. (480i/480P/576i/576P/720P/1080i)

Connecting and Using the Home Theater System

Use the Monitor Out ports of the PDP for Home Theater System Connections.

Rear of the TV

MONITOR OUT

VIDEO | ⬤-AUDIO-®

AUDIO IN

⬤ L   ® R
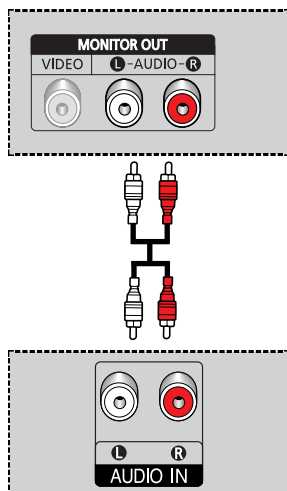
Connecting the Home Theater System

① Connect the monitoring audio out L, and R jacks of the MONITOR OUT on the rear-side connection panel of the PDP TV to the AUDIO IN jacks of the DVD Home Theater System (or AV Receiver) using the audio cable.

② Press the **SOURCE** button to select the desired external device connected to the PDP TV.

③ If you want to hear the sound through separate speakers, cancel the internal amplifier.

① **DVD Home Theater**   ② **AV Receiver Amplifier**
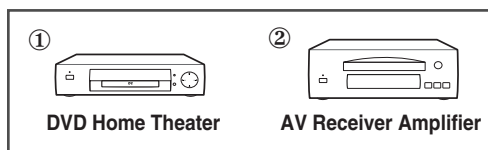
☞ ◆ Refer to corresponding user's manual from the manufacturer for wiring the speakers to the DVD Home Theater System (or AV Receiver).

◆ Disable the PDP TV internal speaker to enjoy the rich sound through the speakers of your Home Theater System.

◆ In this case, enjoy the sound from the Home Theater System while the PDP TV does not produce the audio.

To Display the DVD Home Theater

① Turn the PDP on and press the **SOURCE** button to select the **Ext.1** (or **Ext.2**, **Ext.3**).

② Be sure to connect the video cable properly if desired external input (**Ext.1**, **Ext.2**, or **Ext.3**) cannot be selected.

③ Play the DVD after activating the DVD Home Theater System.

④ Use the volume control of the Home Theater System while watching the PDP using the DVD Home Theater, where the PDP TV does not produce the audio.

Setting up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 Right click the mouse on the Windows Desktop, then click on Properties. The **Display Dialog-Box** will be displayed.

2 Click on **Settings**, then set the **Display Mode** with reference to the Display Modes Table. You do not need to change the **Colours** settings.

3 Click on **Advanced**. A new settings dialog box will be displayed.

4 Click on the **Monitor** tab, then set the **Screen Refresh Rate** with reference to the Display Modes Table. Set the **Vertical Frequency** and **Horizontal Frequency** individually if you can do so instead of setting the **Screen Refresh Rate**.

5 Press the **OK** button, close the window, then press the **OK** button on the **Display Registration Information** window. Automatic re-booting may commence at this moment.

6 Shutdown the PC, and connect it to your TV. (See page 57)

➢ ◆ The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.

◆ When you use your TV as a PC monitor, it supports Colours up to 32 bits.

◆ In this case, the display on the TV may look different depending on your particular version of Windows or the PC manufacturer.

◆ When connecting a PC (including the DVI connection), you must set it to the display settings that are supported by the TV. Otherwise, the message **Out of input range** will be displayed.

Input Mode (PC/DVI)

Both screen position and size will vary depending on the type of PC monitor and its resolution.
The table below shows all of the display modes that are supported:

Video Signal	Dot x Line	Vertical frequency (Hz)	Horizontal frequency (kHz)	Vertical polarity	Horizontal polarity
IBM PC / AT Compatible	720 X 400	70.087	31.469	P	N
	640 X 480	59.940	31.469	N	N
		72.809	37.861	N	N
		75.000	37.5	N	N
		85.061	43.269	N	N
	800 X 600	56.250	35.156	N/P	N/P
		60.317	37.897	P	P
		72.188	48.077	P	P
		75.000	46.875	P	P
		85.061	53.674	P	P
	1024 X 768	60.004	48.363	N	N
		70.069	56.476	N	N
		75.029	60.023	P	P
		84.997	63.677	P	P

(N: Negative / P: Positive)

◆ The interlace mode is not supported.
◆ The television might operate abnormally if a non-standard video format is selected.

Notes

◆ The PC text quality is optimum in **XGA** mode (1024 x 768@60Hz).

◆ When this television is used as a PC display, 32-bit colour is supported.

◆ Your PC display screen might appear different depending on the manufacturer (and your particular version of Windows). Check your PC instruction book for information about connecting your PC to a television.

◆ If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.3kHz (horizontal). In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the **SOURCE** button to enter the Video mode. Also, make sure that the PC is connected.

◆ When connecting a notebook PC to the television, make sure that the PC screen is displayed through only the television (Otherwise, random signals might appear).

◆ When horizontal synchronous signals seem irregular in PC mode, check PC power saving mode or cable connections.

◆ The Display Settings Table above complies to the IBM/VESA standards, and based on the analog input.

◆ The DVI support mode is regarded as same to the PC support mode.

◆ The best timing for the vertical frequency to each mode is 60Hz.

# Pin Configurations

SCART Connector (EXT.1/EXT.2/EXT.3)

> ➤ Pins 5, 7, 9, 11, 13, 15 and 16 are used for RGB processing and are only wired on the **EXT.1** or **EXT.3** connector.
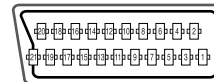
Pin	Signal		Pin	Signal
1	Audio output R		12	-
2	Audio input R		13	Video chassis return (RGB red)
3	Audio output L		14	-
4	Audio chassis return		15	RGB red input
5	Video chassis return (RGB blue)		16	Blanking signal (RGB switching)
6	Audio input L		17	Video chassis return
7	RGB blue input		18	Blanking signal ground
8	Switching voltage		19	Video output
9	Video chassis return (RGB green)		20	Video input
10	AV-Link (Ext 1)		21	Screening/chassis return
11	RGB green input			

PC Input Connector (15Pin)
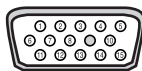
Pin	PC IN
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

DVI Input Connector (24Pin)
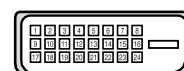
Pin	Signal
1	T.M.D.S. Data2-
2	T.M.D.S. Data2+
3	T.M.D.S. Data2/4 Shield
4	T.M.D.S. Data4-
5	T.M.D.S. Data4+
6	Clock (DDC)
7	Data (DDC)
8	Not Connected
9	T.M.D.S. Data1-
10	T.M.D.S. Data1+
11	T.M.D.S. Data1/3 Shield
12	T.M.D.S. Data3-
13	T.M.D.S. Data3+
14	+5V Power
15	5V Grounding
16	Hot Plug Detect
17	T.M.D.S. Data0-
18	T.M.D.S. Data0+
19	T.M.D.S. Data0/5 Shield
20	T.M.D.S. Data5-
21	T.M.D.S. Data5+
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the " **I** " button (On/Off) and the **POWER** (◉) button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	◆ Check the volume. ◆ Check whether the volume **MUTE** (◪) button on the remote control has been pressed.
No picture or black and white picture	◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	◆ Try to identify the electrical appliance that is affecting the television, then move it further away. ◆ Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	◆ Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.
Remote control malfunctions	◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.

Programming the Remote Control for Other Components

CABLE CODE LIST

Anvision	017, 018
GI	041
Hamlin	003, 024, 031
Hitachi	025, 030
Jerrold	038, 039
Macom	025, 030
Magnavox	019, 023, 028
Oak	026
Panasonic	003, 022, 027, 037, 044
Philips	019, 021, 023, 028
Pioneer	018, 020, 004, 044
RCA	014, 022, 040
Regal	003
Regency	015, 023
SA	042, 043
Samsung	000, 001, 002, 003, 004, 005, 006, 007
Scientific Atlanta	042, 043
Sprucer	022
Stargate 2000	036
Sylvania	016
Texscan	016
Tocom	032
Universal	033, 034
Viewstar	019, 021,023, 028
Warner amex	046
Zenith	017, 029, 035, 037, 045

DVD CODE LIST

Samsung	000
Samsung	001
JVC	002
PROSCAN, RCA	003
Panasonic	005
LG(Goldstar)	006
Sony	007
Denon	008
Curtis Mathes	009

Programming the Remote Control for Other Components (continued)

VCR CODE LIST

Admiral	020	NEC	018, 007, 026, 037, 008, 062, 064
Aiwa	025	Optimus	020
Akai	027, 004, 032	Panasonic	021, 056, 071, 072
Audio Dynamics	007, 026	Pentax	019, 041
Bell&Howell	018	Pentex Research	008
Broksonic	022	Philco	021, 036, 056, 059
Candle	002, 006, 003, 015, 008, 055	Philips	021, 036
Canon	021, 056	Pioneer	019, 026, 039, 053
Citizen	002, 006, 003, 015, 008, 055	Portland	015, 049, 055
Colortyme	007	PROSCAN	017
Craig	002, 024	Quartz	018
Curtis Mathes	002, 017, 007, 008, 021, 025, 056, 064, 066	Quasar	021, 056
Daewoo	003, 015, 010, 011, 012, 013, 014, 016	Radio Shack/Realistic	006, 018, 020, 021, 024,
DBX	007, 026		025, 029, 034, 048, 056
Dimensia	017	RCA	017, 019, 002, 021, 035, 041, 043, 057, 068
Dynatech	034	Samsung	000, 001, 002, 003, 004, 005
Emerson	001, 003, 006, 021, 022, 025, 030, 032, 034,	Sansui	026
	040, 047, 050, 052, 060, 063, 065, 066, 067, 069	Sanyo	018, 024
Fisher	018, 024, 028, 029, 048, 051, 061	Scott	003, 047, 052, 067
Funai	025	Sears	018, 019, 006, 024, 028, 029, 041, 048, 051
General Electric	017, 002, 021, 005, 056	Sharp	020, 034, 045, 015
Go Video	002	Shimom	027, 033, 038, 058
LG(Goldstar)	006, 007, 008, 009, 010	Signature	025
Harman Kardon	007	Sony	027, 033, 044
Hitachi	019, 025, 041, 042	Sylvania	021, 025, 036, 056, 059
Instant Replay	021	Symphonic	025
JC Penny	002, 007, 018, 019, 021, 026, 037, 041, 054, 056	Tandy	018, 025
JVC	007, 008, 018, 021, 026, 037	Tashika	006
Kenwood	007, 008, 018, 026, 037	Tatung	037
KLH	070	Teac	025, 037, 068
Lioyd	025	Technics	021
Logik	038	Teknika	021, 006, 025, 031
LXI	025	TMK	066
Magnavox	021, 036, 056, 059	Toshiba	003, 019, 029, 051, 052
Marantz	018, 021, 007, 026, 037, 008, 062, 036	Totevision	002, 006
Marta	006	Unitech	002
MEI	021	Vector Research	007, 026
Memorex	006, 021, 024, 025	Victor	026
MGA	034	Video Concepts	007, 026
Midland	005	Videosonic	002
Minolta	019, 041	Wards	002, 003, 006, 019, 020, 021, 024,
Mitsubishi	019, 034, 041, 046		025, 034, 038, 041
Montgomery Ward	020	Yamaha	007, 008, 018, 026, 037
MTC	002, 025	Zenith	023, 027, 033, 073
Multitech	002, 025, 038, 005		

− **AFTER SALES SERVICE**

− Do not hesitate to contact your retailer or service agent
if a change in the performance of your product indicates
that a faulty condition may be present.

SAMSUNG
ELECTRONICS